



z/OSMF Software Management Hands-On Lab

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Session 13070



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Agenda



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 - 2. Change the Software Management specific "Settings"
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 - b. Additional Product Information
 - c. Properties
 - d. Data sets (filtering by attribute)
 - 4. Report on the "Master" Software Instances
 - a. End of Service
 - b. SYSMOD Search
 - c. Missing FIXCAT SYSMODs
 - d. Missing Critical Fixes
 - e. Software Instance Comparison
 - f. Software Instance Validation
 - 5. Report on Products



Lab Objective



- Use z/OSMF to view and report on previously defined software instances
- Gain familiarity in using the z/OSMF application
 Hints and Tips
- At any time you can use the Help facilities by clicking on the link in the upper right hand corner of the screen
- You are encouraged to follow the instructions provided, but you can use the new views and reports on any defined software instance
 - Please note that the closer you follow the instructions, the easier it will be to assist you if you go astray
 - The handout contains screen captures and guidance to lead you through the lab
- Please note: Do <u>NOT</u> use the Browser BACK button to go to the prior screen!!!



Software Management



- z/OSMF V1.13 introduced a Software Deployment function
 - Introduced a concept of a software instance
- IBM introduced a Software Management task that extends the Software Deployment task to provide additional actions on software instances.
 - z/OSMF PTFs UK79887, UK83841, UK83825, UK83828, UK83833, UK83836, UK83842, and UK83852
 - These PTFs provide additional new function beyond Software Management
 - See http://www-03.ibm.com/systems/z/os/zos/zosmf/enhancements.html for more information
 - Installation requires reconfiguration of z/OSMF
 - Requisite z/OS SMP/E PTF UO01422

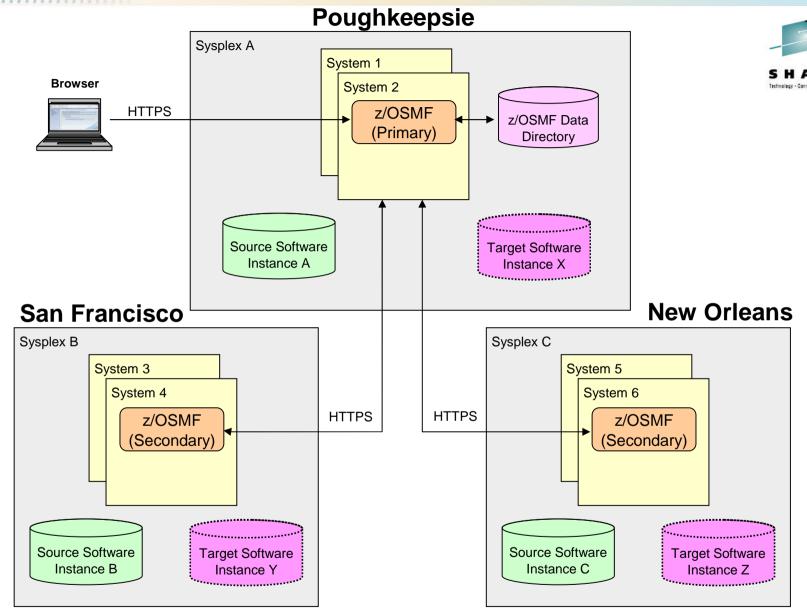


z/OSMF V1.13 Software Management ...



- In addition to deploying a software instance, the Software Management task will:
 - Allow inspection of a software instance to view the product, feature, and FMID content;
 - View the physical data sets that compose a software instance; and
 - Perform actions to analyze and report on software instances and installed products.
 - Identify software products that are approaching, or have reached, end of service support.
 - Validate the SMP/E structure and content of a software instance is correct.
 - Identify missing HIPER and PE fixes, and fixes associated with one or more fix categories
 - Determine if individual fixes are installed and in which software instances.
 - Compare the service and functional content of two software instances to aid in debugging or migration planning.

 Complete your sessions evaluation online at SHARE.org/SanFranciscoEval



Software instances can be viewed or deployed throughout your enterprise

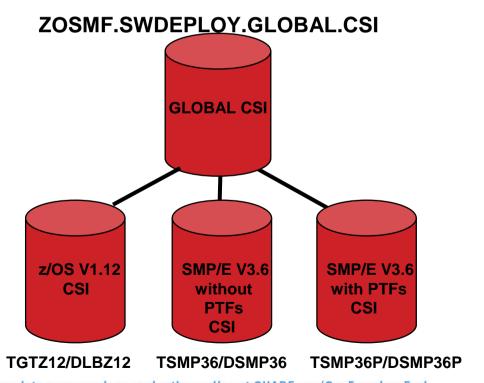


Lab SMP/E Environment



Four (4) "Master" Software Instances

- 1.MASTER_ZOSV1.12
- 2.MASTER_SMPEV3.6_WITHOUT_PTFS
- 3.MASTER_SMPEV3.6_WITH_PTFS
- 4.MASTER_zOS_R13_w/Other_Products



SMLAB01.GLOBAL.CSI



TGT zone	DLIB zone
Z1130T	Z1130D
COB320T	COB320D
PLI410T	PLI410D
DT910T	DT910D

 ${\bf Complete\ your\ sessions\ evaluation\ online\ at\ SHARE.org/SanFranciscoEval}$



Step 1: Logon to z/OSMF and invoke Software Management



Starting the Lab – Log in to z/OSMF



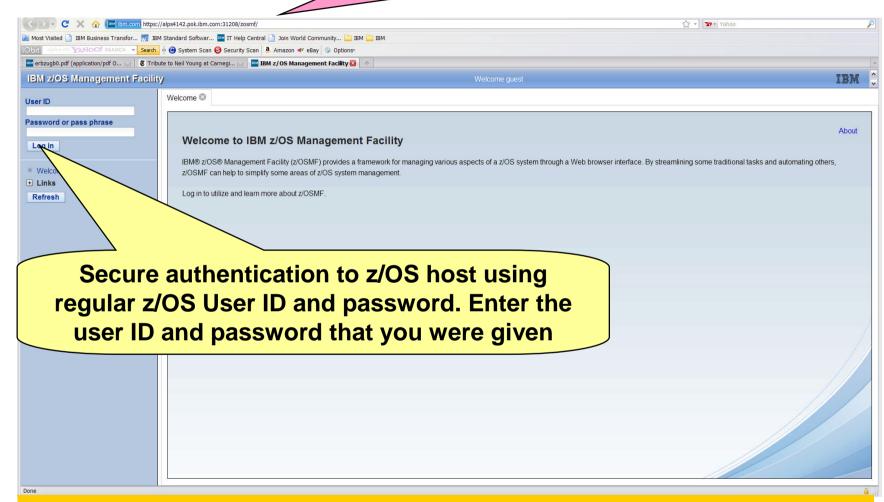
- Launch the Mozilla Firefox browser
 - Note: If browser asks to add exception for certificate, do so
- Point Browser to z/OSMF enter the following url
 - https://mvs1.centers.ihost.com:32208/zosmf/
 - Note: Ignore and close the warning message
 - IZUG809W Unsupported Web browser version or level found: "3.6.13 (.NET CLR 3.5.30729)" . Some z/OSMF functions might not be available if you continue.
- Login with SHARE userid/pw as provided by the lab instructor.
 - Each workstation has been assigned a unique z/OS User ID
 - MFUSRnn (where nn is 01 20)
 - Password: to be provided
- Each User ID has been authorized to all the z/OSMF applications (Plug-ins)

Complete your sessions evaluation online at SHARE.org/SanFranciscoEval

Guest view Login

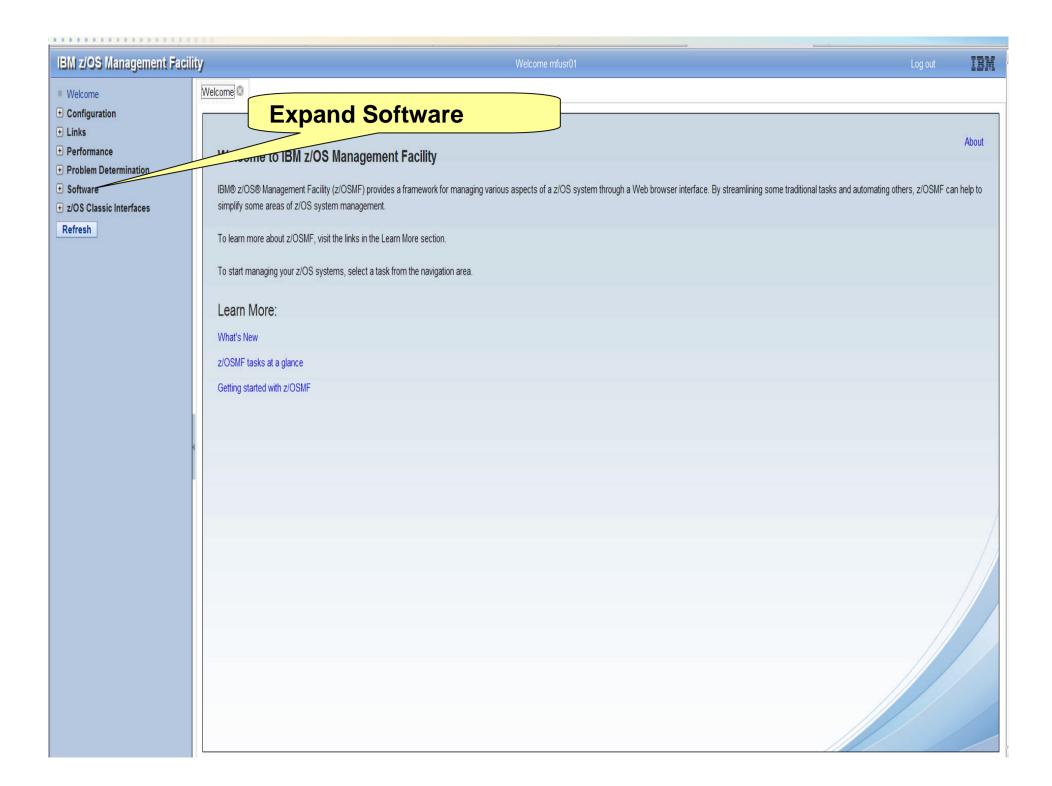
Secure connection to z/OS host

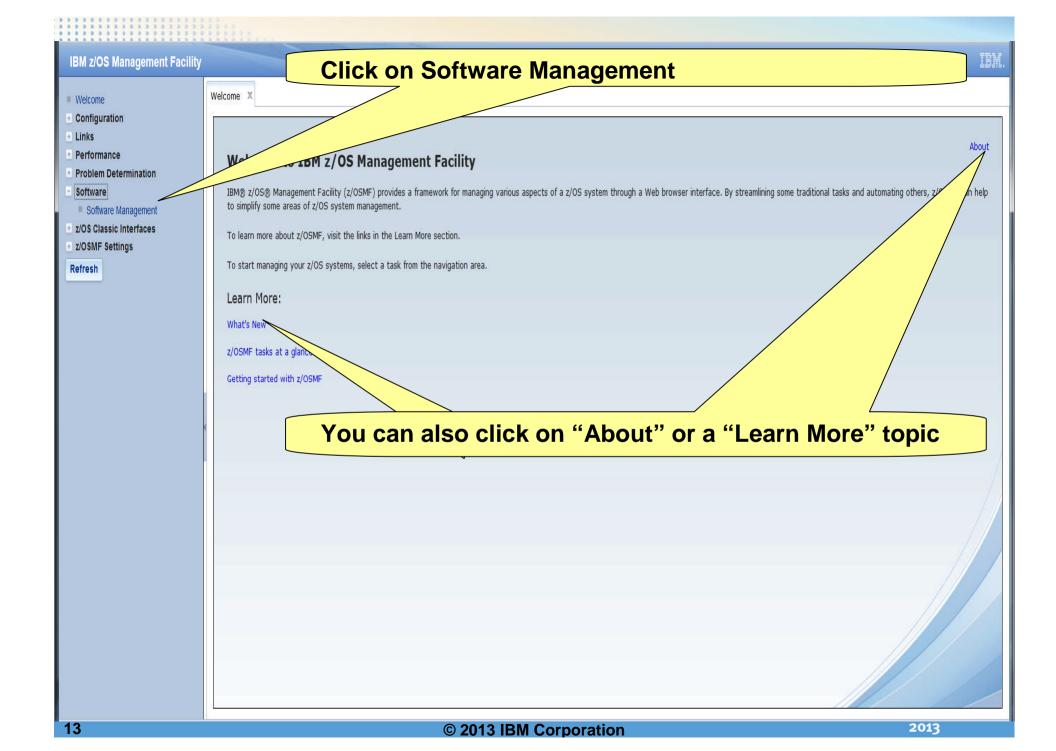




To log in you will need a z/OS user ID that has been defined and enabled for z/OSMF (and the WebSphere® runtime environment)

Guidance is provided.







Step 2: Change the Software Management specific "Settings"



Before you change the Settings, you will attempt to view Products, Features, and FMIDs for all the "Master" software instances. You will need to change the settings to see all the data.



The Software Management task, previously named the Deployment task, contains the software deployment functions along with additional software management functions. The Software Management task helps you streamline the software management process by providing a centralized location that you can use to manage your z/OS software.

Click on Software Instances

Welcome X Software Man... X

Software Management

Use this task to view detail wout your software inventory, including related products, features, FMIDs, data sets, deployments, and SYSMODs. Learn more.

Software Instances Define your software to z/OSMF; deploy software; generate reports about your software.

Products View a consolidated list of the products included in each software instance.

Deployments Deploy a software instance, and manage existing deployments.

Create new categories for your software instances and deployments, and manage existing categories. Categories

Select the time zone in which to display date and time data. Indicate whether to display or suppress information messages. Settings

You will see a list of software instances already defined

Software Management > Software

Software Instances

	Name	System	Messages	Descrip		6 4	
	Filter	Filter	Filter	Filter	Source So Software	ttware ins	
	MASTER_SMPEV3.6_WITH_PTF S	LOCAL		z/OSMF Softw Lab. This insta	are Instance for the vare Deployment ance contains the roduct with PTFs.		ZOSMF.SWDEPLOY.GLOBAL.CS TS
MASTER_SMPEV3.6_WITHOUT LOCAL _PTFS		LOCAL		Source Softwar		oftware In	stance used to
				SMP/E V3.6 p PTFs.		•	ncies in the
	MASTER_ZOSV1.12	LOCAL		Source Softwa z/OSMF Softw Lab. This insta z/OS V1R12 a	are Deployment ance contains	are Deploy	yment Lab
	DEMO_SMPEV3.6_WITH_PTFS	LOCAL	■ IZUD809I	Completed der			ZOSMF.SWDEPLOY.GLOBAL.CS TS
	MASTER_zOS_R13_w/Other_Pr_ oduct	LOCAL		PTFs. z/OS V1.13 wi products to be	"Extra"	Software	Instance
			∢			111	
Ret	fresh Last refresh: Jan 11, 2	2013 9:31:58 AM					created for nagement Lab

For this lab, you will focus on the Software Instances whose names begin with "MASTER"

Software Management Software

Software Instances

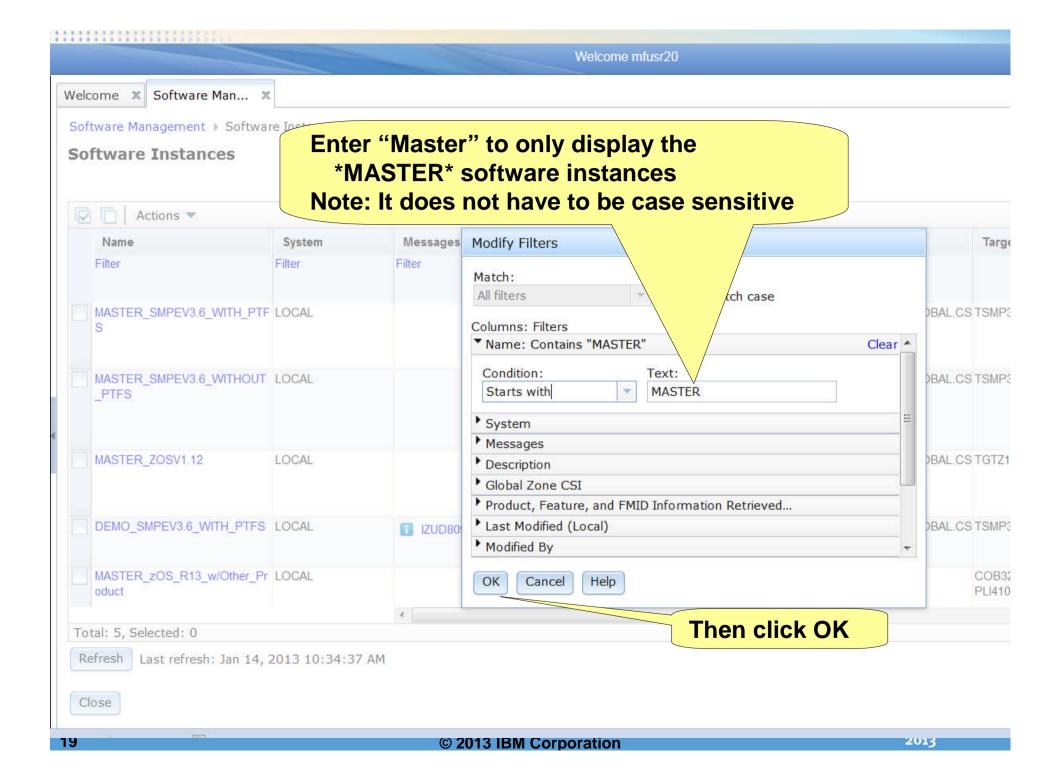
Click on Filter under Name

Name	System	Messages	Description	Activity	Global Zone CSI	Targe
Filter	Filter	Filter	Filter		Filter	
MASTER_SMPEV3.6_WITH_PTI S	FLOCAL		Source Software Instance for the z/OSMF Software Deployment Lab. This instance contains the SMP/E V3.6 product with PTFs.		ZOSMF.SWDEPLOY.GLOBA	AL.CS TSMP3
MASTER_SMPEV3.6_WITHOUT _PTFS	LOCAL		Source Software Instance for the z/OSMF Software Deployment Lab. This instance contains the SMP/E V3.6 product without any PTFs.		ZOSMF.SWDEPLOY.GLOBA	AL.CS TSMP3
MASTER_ZOSV1.12	LOCAL		Source Software Instance for the z/OSMF Software Deployment Lab. This instance contains z/OS V1R12 at RSU1105.		ZOSMF.SWDEPLOY.GLOBA	AL.CS TGTZ12
DEMO_SMPEV3.6_WITH_PTFS	LOCAL	[] IZUD809I	Completed demo software instance, of SMP/E V3.6 with PTFs.		ZOSMF.SWDEPLOY.GLOBA	AL.CS TSMP3
MASTER_zOS_R13_w/Other_P oduct	r LOCAL		z/OS V1.13 with over 20 other products to be used during the		SMLAB01.GLOBAL.CSI	COB32 PLI410

Total: 5, Selected: 0

Refresh Last refresh: Jan 14, 2013 10:34:37 AM

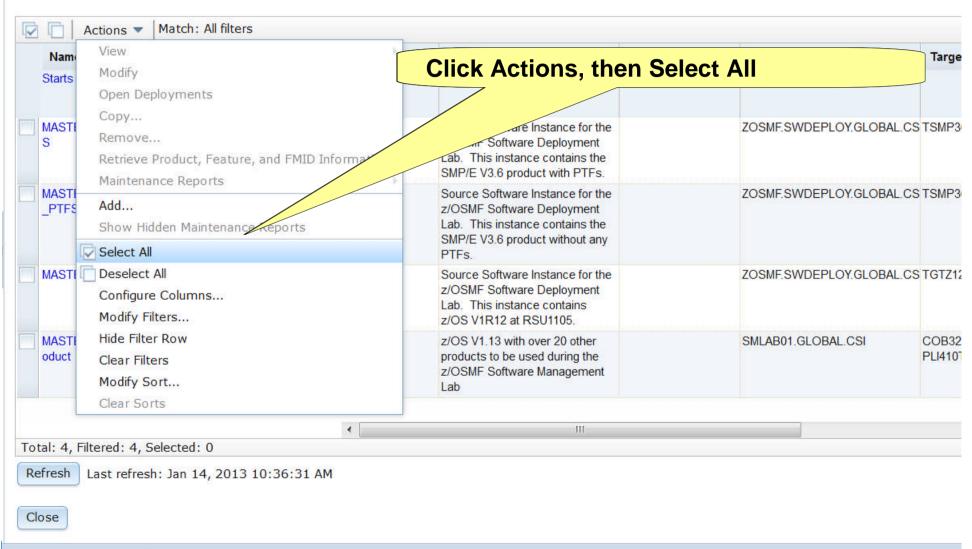
Close



Only the software instances that contain "MASTER" are now displayed

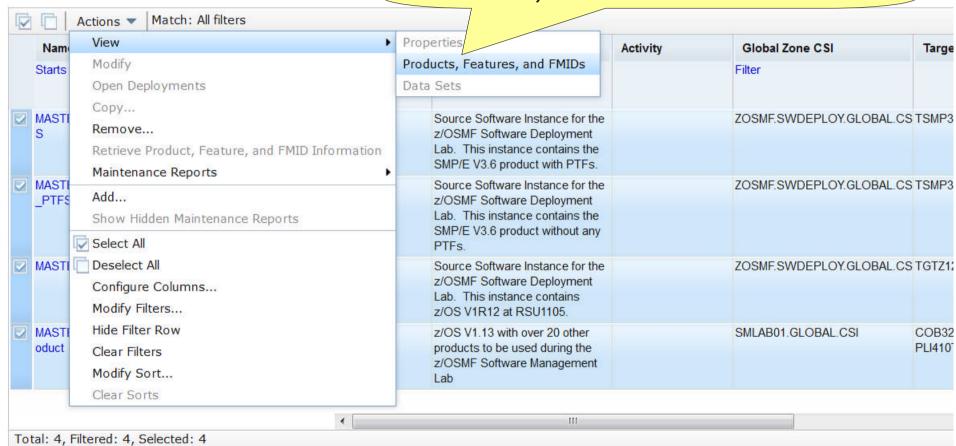
Software Management ▶ Softwar

Software Instances



All the software instances are now selected

Software Management ▶ Software Instance Click Actions, then View, then Products, **Software Instances** Features, and FMIDs



Refresh Last refresh: Jan 14, 2013 10:36:31 AM

Close

Message IZUD230W is generated stating that the display will exceed 750 rows. You will change the Settings to allow more rows to be displayed.

Software Management After reviewing the message, View Products, Features, and FMIDs click Software Management A IZUD230W: One or more of the selected software instances are not displayed because the table would contain more than 750 rows, which is not allowed Software Instances table, and select fewer software instances, or increase the number of rows that can be displayed in the table. Products, Features, and FM Software Instance Table view Actions * Software Instance / Product / Feature System Messages Product, Feature, and Release Product ID FMID Information Filter Filter Filter Filter Retrieved (Local) Filter LOCAL Jan 9, 2013 4:12:53 PM **■ MASTER SMPEV3.6 WITHOUT PTFS** LOCAL Jan 9, 2013 4:13:16 PM Optionally, you can click on the message to get more details Total: 12, Selected: 0 Refresh

Last refresh: Jan 14, 2013 10:37:36 AM

Close

Welcome X Software Man... X

Software Management

Use this task to view details about you Mware inventory, including related products, features, FMIDs, data sets, deployments, and SYSMODs. Learn more...

software to z/OSMF; deploy software; generate reports about your software. Software Instances Define y

Products View a consolidated list of the products included in each software instance.

Deployments Deploy a software instance, and manage existing deployments.

Categories Create new categories for your software instances and deployments, and manage existing categories.

Settings Select the time zone in which to display date and time data. Indicate whether to display or suppress information messages. Welcome x Software Man... x

Software Management ▶ Settings

Settings

Select the time zone to use for date and time data:

☐ Greenwich Mean Time (GMT)

⑥ Local (Eastern Standard Time)

Display information messages that notify you that an object was added, modified, or removed:

☐ Yes

⑥ No

* Maximum number of rows to display in tables with data about software instances:

OK Cancel

Change the maximum number of rows to display to 2000 (or higher), and the click OK



Step 3a: View the "Master" Software Instances' Products, Features, and FMIDs



IDAA --

You will now view ALL the "Master" software instances' Product, Feature, and FMIDs

Software Management

Click on Software Instances (again)

Use this task to view details about your software

more, including related products, features, FMIDs, data sets, deployments, and SYSMODs. Learn more.

Software Instances Define your software to z/OSMF; deploy software; generate reports about your software.

Products View a consolidated list of the products included in each software instance.

Deployments Deploy a software instance, and manage existing deployments.

Categories Create new categories for your software instances and deployments, and manage existing categories.

Select the time zone in which to display date and time data. Indicate whether to display or suppress information messages.

Notice that the Name Filter is still set and that ONLY Software Instances that contain "Master" are displayed.

Software Management ances

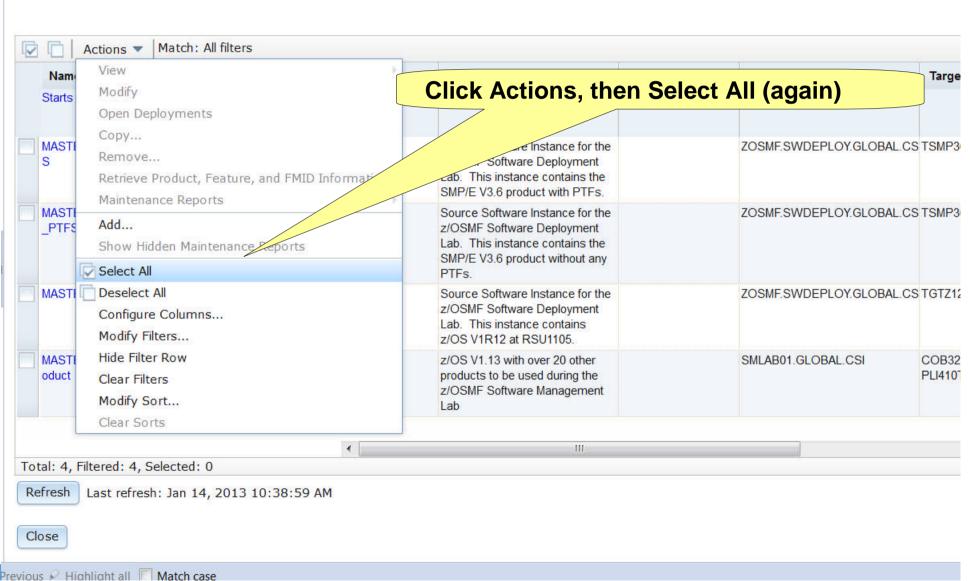
Software Instances

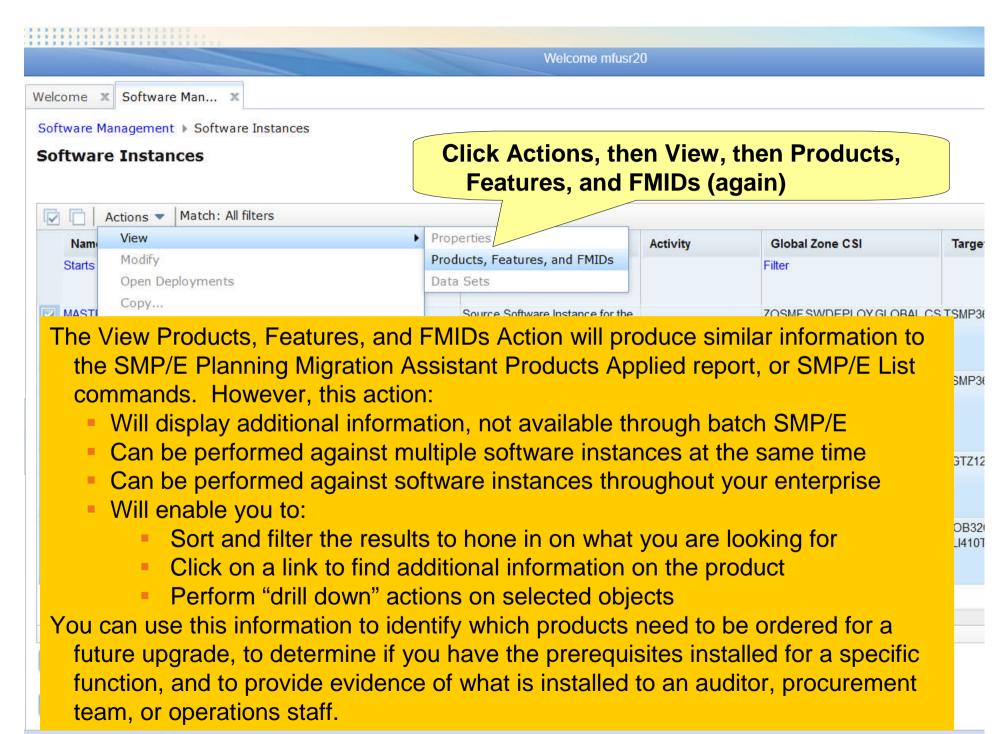
	Name	System	Messages	Description	Activity	
	Contains "Master"	Filter	Filter	Filter		
	MASTER_SMPEV3.6_WITH_PT	LOCAL		Source Software Instance for the z/OSMF Software Deployment Lab. This instance contains the SMP/E V3.6 product with PTFs.		
	MASTER_SMPEV3.6_WITHOUT _PTFS	LOCAL		Source Software Instance for the z/OSMF Software Deployment Lab. This instance contains the SMP/E V3.6 product without any PTFs.		
	MASTER_ZOSV1.12	LOCAL		Source Software Instance for the z/OSMF Software Deployment Lab. This instance contains z/OS V1R12 at RSU1105.		
_	MASTER_zOS_R13_w/Other_Product	LOCAL		z/OS V1.13 with over 20 other products to be used during the z/OSMF Software Management Lab		

A Most & Provious & Highlight all Match care

You are going to display Products, Features, and FMIDs for all Software Instances that contain "Master" (again).







This time all the software instances can be viewed. No more message IZUD230W.

Software Management > Software Instances - Features, and FMIDs

View Products, Features, and FMIDs

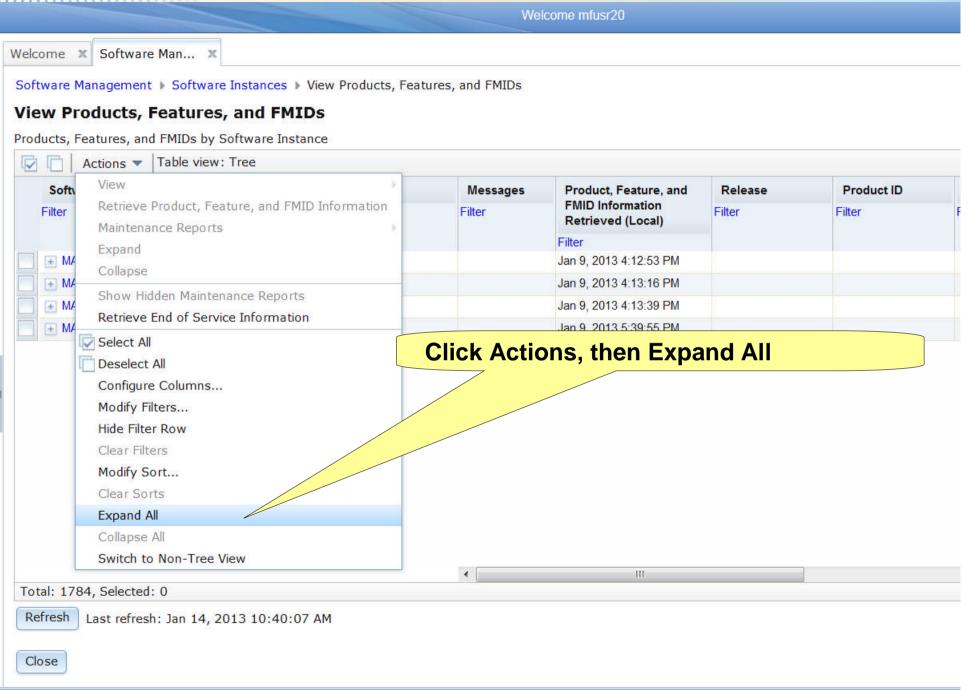
Products, Features, and FMIDs by Software Instance

Software Instance / Product / Feature / FMID Filter	System	Messages	Product, Feature, and	Release	Product ID
	Filter Filter		FMID Information Retrieved (Local)	Filter	Filter
			Filter		
■ MASTER_SMPEV3.6_WITH_PTFS	LOCAL		Jan 9, 2013 4:12:53 PM		
■ MASTER_SMPEV3.6_WITHOUT_PTFS	LOCAL		Jan 9, 2013 4:13:16 PM		
■ MASTER_ZOSV1.12	LOCAL		Jan 9, 2013 4:13:39 PM		
MASTER_zOS_R13_w/Other_Product	LOCAL		Jan 9, 2013 5:39:55 PM		

Total: 1784, Selected: 0

sh Last refresh: Jan 14, 2013 10:40:07 AM

Close





The products, features and FMIDs are listed in a tree table

Software Management ▶ Software Instances ▶ View Products, Features, and FMIDs

View Products, Features, and FMIDs

Products, Features, and FMIDs by Software Instance

Software Instance / Product / Feature / FMID	System	Messages	Product, Feature, and	Release	Product ID	Vendor
Filter	Filter Filter		FMID Information Retrieved (Local)	Filter	Filter	Filter
			Filter			
MASTER_SMPEV3.6_WITH_PTFS	LOCAL		Jan 14, 2013 10:51:58 AM			
System Modification Program Extended for z/OS				03.06.00	5655-G44	IBM
SMP/E V3 Base						
■ HBCNC00						
■ HBCND0B						
■ HMP1J00						
MASTER_SMPEV3.6_WITHOUT_PTFS	LOCAL		Jan 9, 2013 4:13:16 PM			
System Modification Program Extended for z/OS				03.06.00	5655-G44	IBM
SMP/E V3 Base						
■ HBCNC00						
■ HBCND0B						
■ HMP1J00						
MASTER_ZOSV1.12	LOCAL		Jan 9, 2013 4:13:39 PM			
200					111	1.2

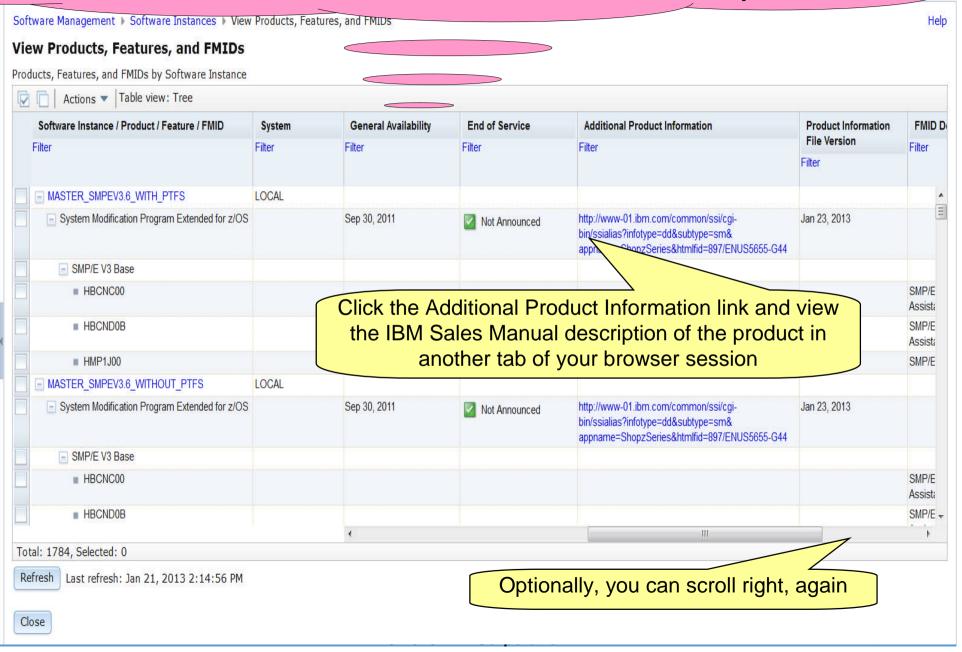
Refresh

Last refresh: Jan 14, 2013 5:00:54 PM

You can scroll right

Close

The General Availability date, End of Service dates, and Additional Product Information are not available in batch SMP/E reports





Step 3b: View the "Master" Software Instances' Additional Product Information



The Additional Product Information link enables you to view the IBM Sales Manual description of the product in another tab of your browser session

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Offering Information

IBM Sales Manual

Feedback

5655-G44 IBM System Modification Program Extended (SMP/E) for z/OS V3.6

IBM United States Sales Manual Revised: July 12, 2011.

Related links

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Table of contents

- ▶ Product Life Cycle Dates
- ▶ Program Number
- ↓ Abstract
- ▶ Product Positioning
- ↓ Highlights

- ↓ Description
- **↓** Technical Description
- ♣ Planning Information
- ♣ Security, Auditability, and Control

Product Life Cycle Dates

Program Number	VRM	Announced	Available	Marketing Withdrawn	Service Discontinued
5655-G44	3.06.0	2011/07/12	2011/09/30	420	=
5655-G44	3.05.0	2008/08/05	2008/09/26	*=11	=
5655-G44	3.04.0	2005/07/26	2005/09/30	2008/09/26	2010/09/30
5655-G44	3.03.0	2004/08/10	2004/09/24	2005/09/30	2007/09/30
5655-G44	3.02.0	2003/05/13	2003/05/30	2004/09/24	2007/09/30
5655-G44	3.01.0	2001/09/11	2001/10/26	2003/05/30	2007/03/31

^{*} Back to top

You are going to perform actions against a single Software Instance, so click on the "breadcrumbs"

Software Management > Software Instances > View Products, Features Help View Products, Features, and FMIDs **Click on Software Instances** Products, Features, and FMIDs by Software Instance Actions Table view: Tree **General Availability End of Service** Additional Product Information Product Information FMID D Software Instance / Product / Feature / FMID System File Version Filter Filter Filter Filter Filter Filter Filter - MASTER SMPEV3.6 WITH PTFS LOCAL System Modification Program Extended for z/OS Sep 30, 2011 http://www-01.ibm.com/common/ssi/cgi-Jan 23, 2013 Not Announced bin/ssialias?infotype=dd&subtype=sm& appname=ShopzSeries&htmlfid=897/ENUS5655-G44 SMP/E V3 Base ■ HBCNC00 SMP/E Assista SMP/E ■ HBCND0B Assista ■ HMP1J00 SMP/E MASTER SMPEV3.6 WITHOUT PTFS LOCAL System Modification Program Extended for z/OS Sep 30, 2011 http://www-01.ibm.com/common/ssi/cgi-Jan 23, 2013 Not Announced bin/ssialias?infotype=dd&subtype=sm& appname=ShopzSeries&htmlfid=897/ENUS5655-G44 SMP/E V3 Base SMP/E ■ HBCNC00 Assista SMP/E + ■ HBCND0B Total: 1784, Selected: 0 Refresh Last refresh: Jan 21, 2013 2:14:56 PM Close

Now select the "Master" software instance created for this lab.

Welcome Nortware ...

Software Management > Software Instances

Software Instances

Close

revious 👂 Highlight <u>a</u>ll 🔲 Mat<u>c</u>h case

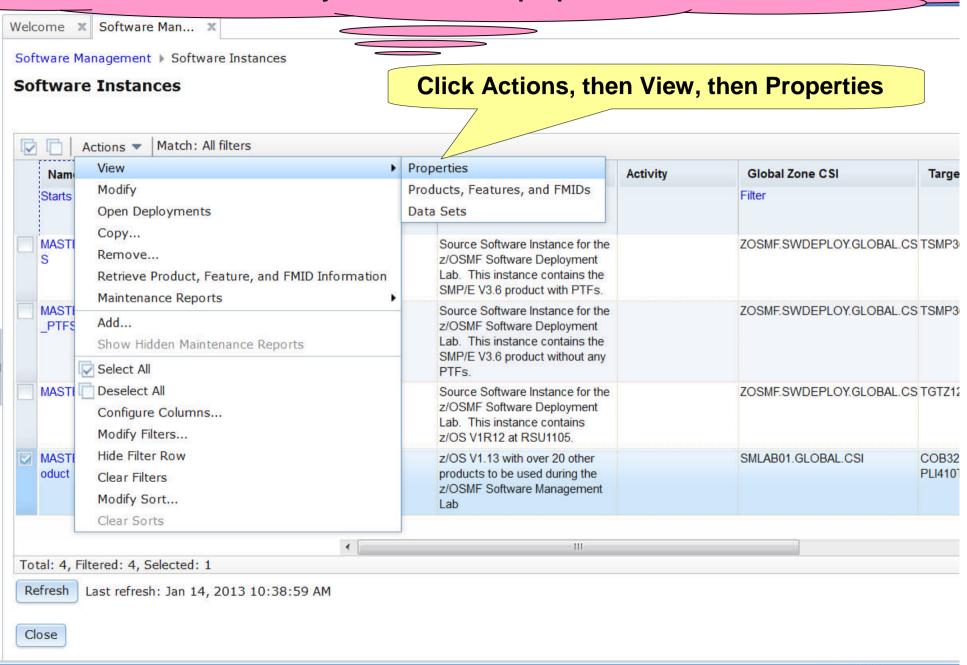
	Name	System	Messages	Description	Activity	Global Zone CSI	Targe
	Starts with "MASTER"	Filter	Filter	Filter		Filter	
]	MASTER_SMPEV3.6_WITH_PTF S	LOCAL		Source Software Instance for the z/OSMF Software Deployment Lab. This instance contains the SMP/E V3.6 product with PTFs.		ZOSMF.SWDEPLOY.GLOBA	L.CS TSMP3
1	MASTER_SMPEV3.6_WITHOUT _PTFS	LOCAL		Source Software Instance for the z/OSMF Software Deployment Lab. This instance contains the SMP/E V3.6 product without any PTFs.		ZOSMF.SWDEPLOY.GLOBA	L.CS TSMP3
]	MASTER_ZOSV1.12	LOCAL		Source Software Instance for the z/OSMF Software Deployment Lab. This instance contains z/OS V1R12 at RSU1105.		ZOSMF.SWDEPLOY.GLOBA	L.CS TGTZ12
2	MASTER_zOS_R13_w/Other_Pr oduct	LOCAL		z/OS V1.13 with over 20 other products to be used during the z/OSMF Software Management Lab		SMLAB01.GLOBAL.CSI	COB32 PLI410



Step 3c: View the "Master" Software Instances' Properties



First you will view the properties.



Multiple tabs are a available to view details of this specific software instance. You can see the description, what SMP/E zones are defined, as well as any non-SMP/E managed data sets

Software

View MASTER_zOS_R13_

General SMP/E Z

SMP/E Zones Non-SMP/E Managed Data Sets

Name:

MASTER_zOS_R13_w/Other_Product

Description: (maximum 256 characters, currently 0 characters)

 $\rm z/OS~V1.13~with~over~20~other~products~to~$ be used during the $\rm z/OSMF~Software$

Management Lab

After reviewing the General information, click the SMP/E zones tab.

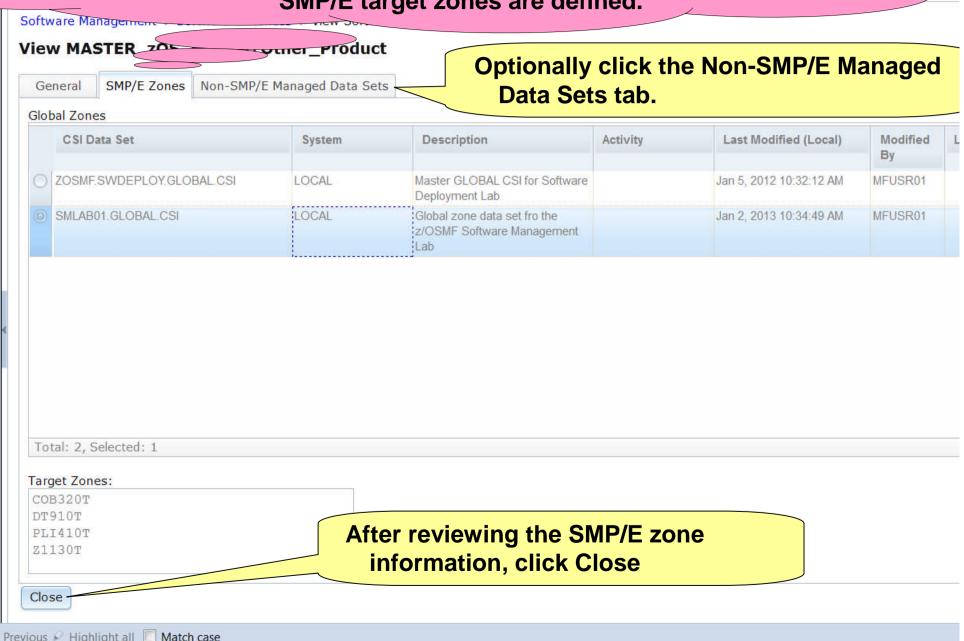
Categories:

There is no data to display.

Action Summary

Action	Date and Time (Local)	User
Modified	Jan 9, 2013 5:39:53 PM	GDAYNES
Created	Jan 7, 2013 1:51:35 PM	GDAYNES
Locked		

The SMP/E Zones tab shows a list of GLOBAL zone CSI data sets and which is used for this software instance, as well as what SMP/E target zones are defined.



You are brought back to the list of "Master" software instances Welcome X Software Man... X Software Management ▶ Software Instances **Software Instances** Match: All filters Actions -Activity Description Global Zone CSI Name System Messages Targe Filter Filter Filter Filter Contains "Master" Source Software Instance for the MASTER SMPEV3.6 WITH PTF LOCAL ZOSMF.SWDEPLOY.GLOBAL.CS TSMP3 z/OSMF Software Deployment Lab. This instance contains the SMP/E V3.6 product with PTFs. MASTER SMPEV3.6 WITHOUT LOCAL Source Software Instance for the ZOSMF.SWDEPLOY.GLOBAL.CS TSMP3 PTFS z/OSMF Software Deployment Lab. This instance contains the SMP/E V3.6 product without any PTFs. MASTER ZOSV1.12 LOCAL Source Software Instance for the ZOSMF SWDEPLOY GLOBAL CS TGTZ1 z/OSMF Software Deployment Lab. This instance contains

z/OS V1R12 at RSU1105.

Lab

z/OS V1.13 with over 20 other

products to be used during the

z/OSMF Software Management

COB32

PLI410

SMLAB01 GLOBAL CSI

Total: 4, Filtered: 4, Selected: 1

MASTER zOS R13 w/Other Pr LOCAL

Refresh Last refresh: Jan 14, 2013 5:00:46 PM

Close

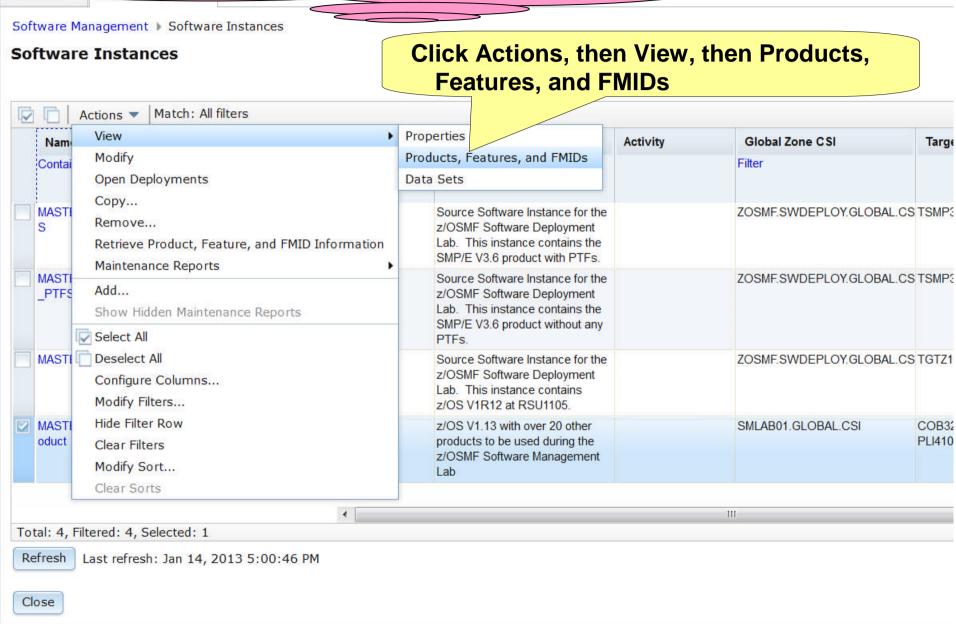
oduct



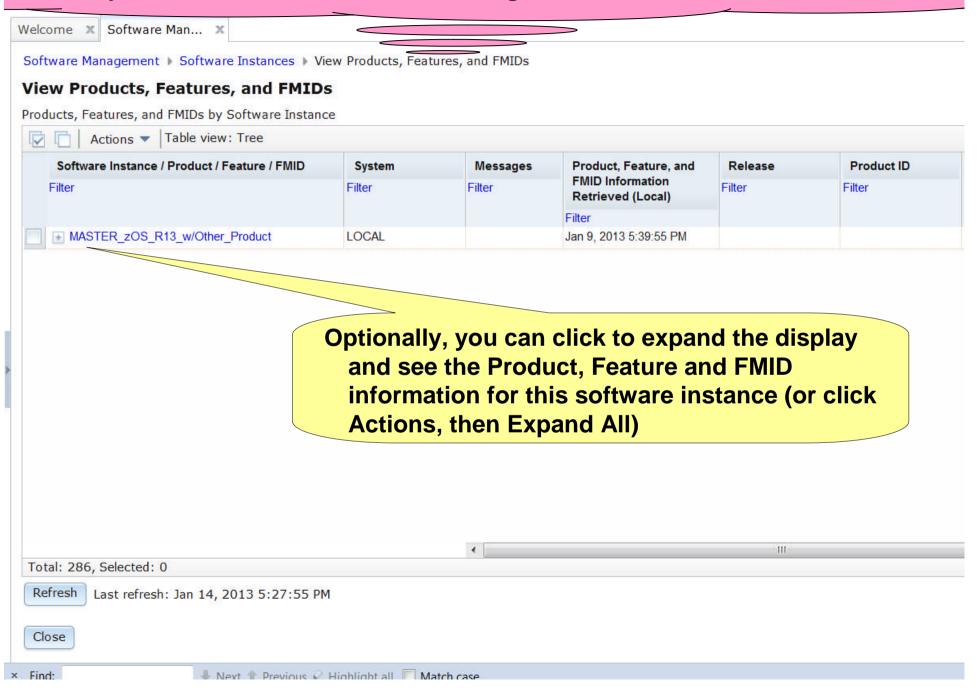
Step 3d: View the "Master" Software Instances' Data Sets



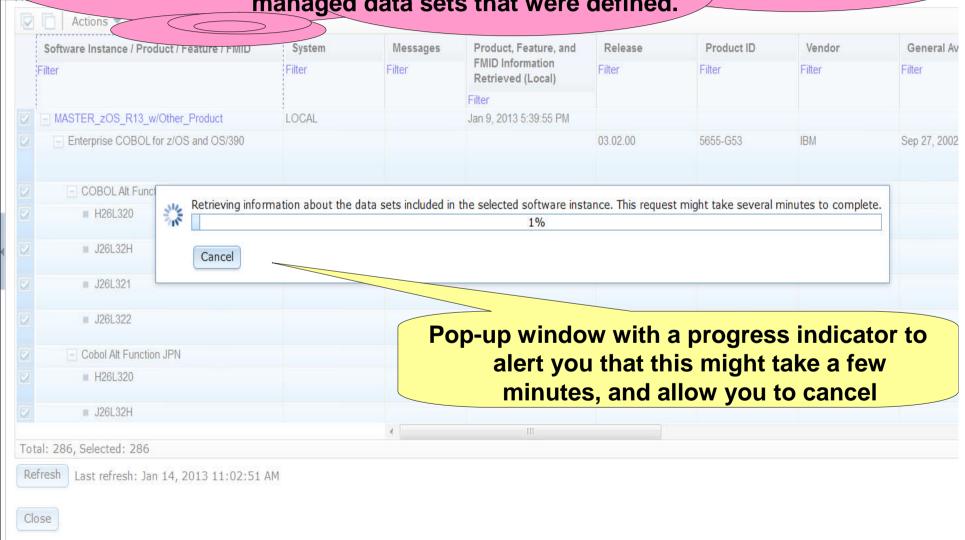
Now you will view Products, Features, and FMIDs just for this instance so that you can see how to drill down deeper in the tables



Next you will view data sets from viewing Products, Features, and FMIDs



Software Management dynamically analyzes the GLOBAL, target and distribution zones to determine the list of data sets that make up the software instance. The list is limited to those data sets (DDDEFs) that can possibly be updated using SMP/E commands and any non-SMP/E managed data sets that were defined.



Provious A Highlight all Match case

Data sets are displayed in ISPF Data Set List (3.4) like format showing the data sets and its attributes.

Software Management > Software Instance

MIDs View Data Sets

View Data Sets

Actions V

Selected software instance: MASTER_zOS_R13_w/Other_Product on system LOCAL

SMP/E Managed Data Sets Non-SMP/E Managed Data Sets

After reviewing click the Non-SMP/E Managed Data Sets tab.

ACTIONS										
Data Set Name	Messages	Zone Names	Volumes	Data Set Type	RECFM	LRECL	BLKSIZE	Tracks	% Used	Extents
Filter	Filter	Filter	Filter	Filter	Filter	Filter	Filter	Filter	Filter	Filter
ABJ.H09F210.AABJCLST		Z1130D, Z1130T	SHAR02	PDS	FB	80	27920	7	100	1
ABJ.H09F210.AABJLCP		Z1130D, Z1130T	SHAR02	PDS	FB	80	27920	57	100	1
ABJ.H09F210.AABJMLIB		Z1130D, Z1130T	SHAR02	PDS	FB	80	27920	1	100	1
ABJ.H09F210.AABJMOD1		Z1130D, Z1130T	SHAR02	PDS	U		32760	13	100	1
ABJ.H09F210.AABJPLIB		Z1130D, Z1130T	SHAR02	PDS	FB	80	27920	11	100	1
ABJ.H09F210.AABJSAM1		Z1130D, Z1130T	SHAR02	PDS	FB	80	27920	10	100	1
ABJ.H09F210.AABJSAM2		Z1130D, Z1130T	SHAR02	PDS	VB	1028	27998	32	100	1
ABJ.H09F210.AABJSLIB		Z1130D, Z1130T	SHAR02	PDS	FB	80	27920	3	100	1
ABJ.H09F210.AABJTLIB		Z1130D, Z1130T	SHAR02	PDS	FB	80	27920	1	100	1
ABJ.H09F210.SABJCLST		Z1130T	SHAR01	PDS	FB	80	27920	7	100	1
ABJ.H09F210.SABJLCP		Z1130T	SHAR01	PDS	FB	80	27920	57	100	1
ABJ.H09F210.SABJMLIB		Z1130T	SHAR01	PDS	FB	80	27920	1	100	1
ABJ.H09F210.SABJMOD1		Z1130T	SHAR01	PDS	U		32760	17	100	1
ABJ.H09F210.SABJPLIB		Z1130T	SHAR01	PDS	FB	80	27920	11	100	1
ABJ.H09F210.SABJSAM1		Z1130T	SHAR01	PDS	FB	80	27920	10	100	1
ABJ.H09F210.SABJSAM2		Z1130T	SHAR01	PDS	VB	1028	27998	32	100	1
				1						

Total: 1173

Close

You can use filters to identify conforming/non-conforming: data set names, data set placement, possibly based on data set type, data sets with more than one extent, etc. In the lab you will identify data sets with more than one extent.

Information about the non-SMP/E managed data sets is also dynamically retrieved and displayed.

Software Management > Software Inch

stures, and FMIDs | View Data Sets

View Data Sets

Actions =

Selected software instance: MASTER_zOS_R13_w/Other_Product on system LOCAL

SMP/E Managed Data Sets Non-SMP/E Managed Data Sets

After reviewing click the SMP/E Managed Data Sets tab so you can filter the list.

Actions									
Data Set Name	Messages	Volumes	Data Set Type	RECFM	LRECL	BLKSIZE	Tracks	% Used	Extents
Filter	Filter	Filter	Filter	Filter	Filter	Filter	Filter	Filter	Filter
SYS1.PARMLIB		SHAR03	PDS	FB	80	27920	l l	1 100) 1
SYS1.PROCLIB		SHAR03	PDS	FB	80	27920		1 100) 1

Total: 2



Welcome X Software Man... X

Software Management ▶ Software Instances ▶ View Products, Features, and FMIDs ▶ View Data Sets

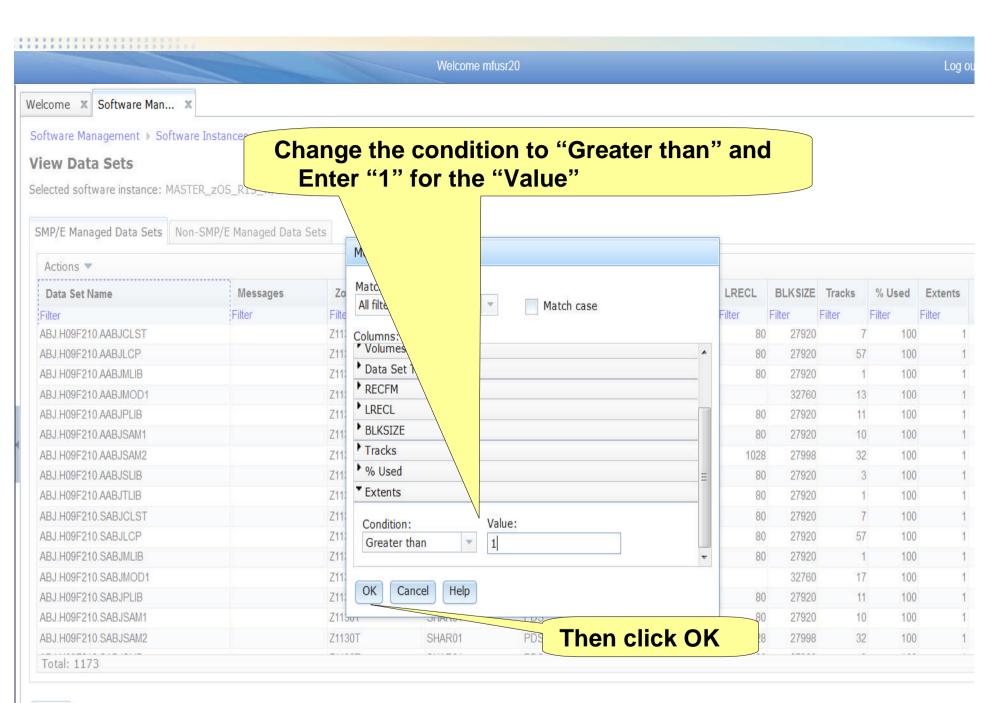
View Data Sets

Selected software instance: MASTER_zOS_R13_w/Other_Product on sys

Click on the filter in the Extents column

SMP/E Managed Data Sets Non-SMP/E Managed Data Sets

Actions										
Data Set Name	Messages	Zone Names	Volumes	Data Set Type	RECFM	LRECL	BLKSIZE	Tracks	%	Extents
Filter	Filter	Filter	Filter	Filter	Filter	Filter	Filter	Filter	Filter	Filter
ABJ.H09F210.AABJCLST		Z1130D, Z1130T	SHAR02	PDS	FB	80	27920	7	100	1
ABJ.H09F210.AABJLCP		Z1130D, Z1130T	SHAR02	PDS	FB	80	27920	57	100	1
ABJ.H09F210.AABJMLIB		Z1130D, Z1130T	SHAR02	PDS	FB	80	27920	1	100	1
ABJ.H09F210.AABJMOD1		Z1130D, Z1130T	SHAR02	PDS	U		32760	13	100	1
ABJ.H09F210.AABJPLIB		Z1130D, Z1130T	SHAR02	PDS	FB	80	27920	11	100	1
ABJ.H09F210.AABJSAM1		Z1130D, Z1130T	SHAR02	PDS	FB	80	27920	10	100	1
ABJ.H09F210.AABJSAM2		Z1130D, Z1130T	SHAR02	PDS	VB	1028	27998	32	100	1
ABJ.H09F210.AABJSLIB		Z1130D, Z1130T	SHAR02	PDS	FB	80	27920	3	100	1
ABJ.H09F210.AABJTLIB		Z1130D, Z1130T	SHAR02	PDS	FB	80	27920	1	100	1
ABJ.H09F210.SABJCLST		Z1130T	SHAR01	PDS	FB	80	27920	7	100	1
ABJ.H09F210.SABJLCP		Z1130T	SHAR01	PDS	FB	80	27920	57	100	1
ABJ.H09F210.SABJMLIB		Z1130T	SHAR01	PDS	FB	80	27920	1	100	1
ABJ.H09F210.SABJMOD1		Z1130T	SHAR01	PDS	U		32760	17	100	1
ABJ.H09F210.SABJPLIB		Z1130T	SHAR01	PDS	FB	80	27920	11	100	1
ABJ.H09F210.SABJSAM1		Z1130T	SHAR01	PDS	FB	80	27920	10	100	1
ABJ.H09F210.SABJSAM2		Z1130T	SHAR01	PDS	VB	1028	27998	32	100	1



With the filter set, you can easily see the 10 (out of 1173) data sets that have secondary extents. You could further filter the Volumes column to identify those data sets with secondary extents that reside on the SYSRES.

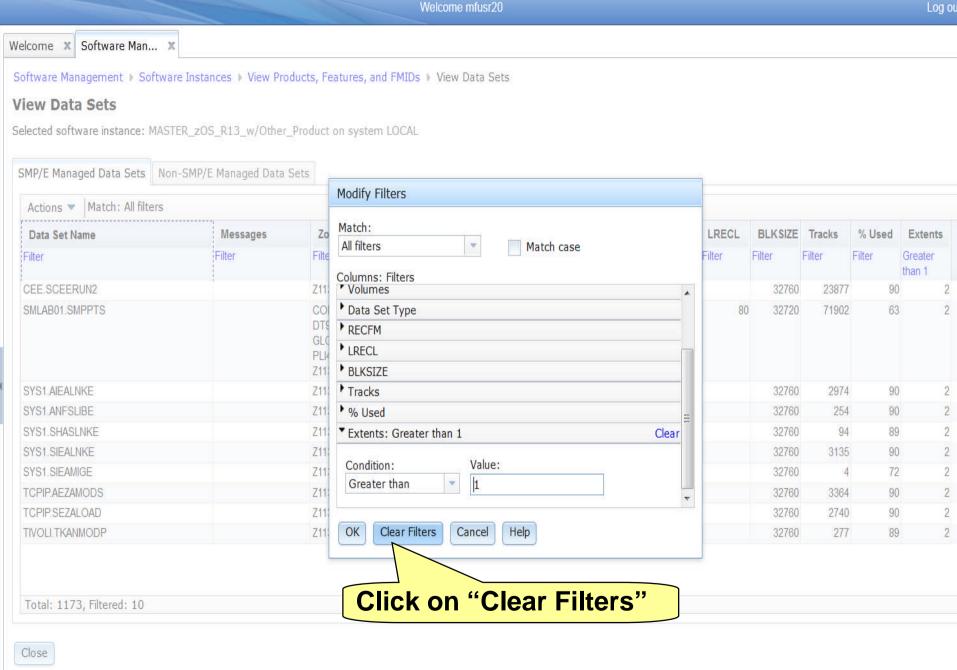
Click on the filter in the Extents column

SMP/E Managed Data Sets Non-Jmr/ - ranaged Data Sets

Non Sini / E Francigea Bata Sets

Data Set Name	Messages	Zone Names	Volumes	Data Set Type	RECFM	LRECL	BLKSIZE	Tracks	% Us-	Extents
Filter	Filter	Filter	Filter	Filter	Filter	Filter	Filter	Filter	Filter	Greater than 1
CEE.SCEERUN2		Z1130T	SHAR01	PDSE	U		32760	23877	90) 2
SMLAB01.SMPPTS		COB320D, COB320T, DT910D, DT910T, GLOBAL, PLI410D, PLI410T, Z1130D, Z1130T	SHAR02	PDSE	FB	80	32720	71902	63	3 2
SYS1.AIEALNKE		Z1130D, Z1130T	SHAR03	PDSE	U		32760	2974	90	0 2
SYS1.ANFSLIBE		Z1130D, Z1130T	SHAR03	PDSE	U		32760	254	90	0 2
SYS1.SHASLNKE		Z1130T	SHAR01	PDSE	U		32760	94	89	9 2
SYS1.SIEALNKE		Z1130T	SHAR01	PDSE	U		32760	3135	90	0 2
SYS1.SIEAMIGE		Z1130T	SHAR01	PDSE	U		32760	4	72	2 2
TCPIP.AEZAMODS		Z1130D, Z1130T	SHAR03	PDSE	U		32760	3364	90	0 2
TCPIP.SEZALOAD		Z1130T	SHAR01	PDSE	U		32760	2740	90	0 2
TIVOLI.TKANMODP		Z1130T	SHAR01	PDSE	U		32760	277	89	9 2

Total: 1173, Filtered: 10



You are back to the original list of data sets. You will now use filtering to verify that all ZFS file systems are on volume SHAR04.

Software Management > Software Instance

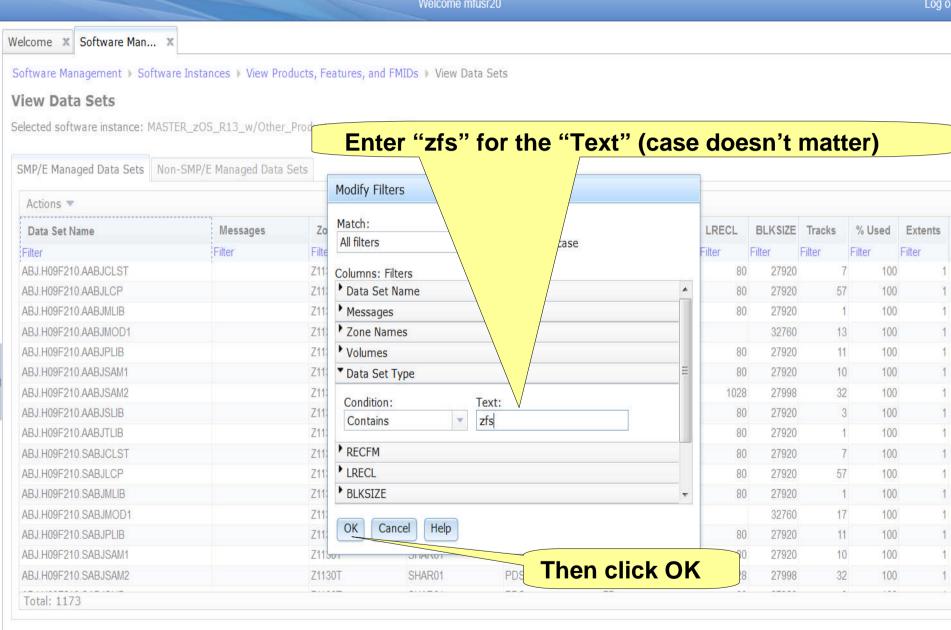
View Data Sets

Selected software instance: MASTER_zOS_R13_w/Other_Product on system LOCAL

SMP/E Managed Data Sets Non-SMP/E Managed Da

Click on the filter in the Data Set Type column

Actions										
Data Set Name	Messages	Zone Names	Volumes	Data Set Type	RECFM	LRECL	BLKSIZE	Tracks	% Used	Extents
Filter	Filter	Filter	Filter	Filter	Filter	Filter	Filter	Filter	Filter	Filter
ABJ.H09F210.AABJCLST		Z1130D, Z1130T	SHAR02	PDS	FB	80	27920	7	100	1
ABJ.H09F210.AABJLCP		Z1130D, Z1130T	SHAR02	PDS	FB	80	27920	57	100	1
ABJ.H09F210.AABJMLIB		Z1130D, Z1130T	SHAR02	PDS	FB	80	27920	1	100	1
ABJ.H09F210.AABJMOD1		Z1130D, Z1130T	SHAR02	PDS	U		32760	13	100	1
ABJ.H09F210.AABJPLIB		Z1130D, Z1130T	SHAR02	PDS	FB	80	27920	11	100	1
ABJ.H09F210.AABJSAM1		Z1130D, Z1130T	SHAR02	PDS	FB	80	27920	10	100	1
ABJ.H09F210.AABJSAM2		Z1130D, Z1130T	SHAR02	PDS	VB	1028	27998	32	100	1
ABJ.H09F210.AABJSLIB		Z1130D, Z1130T	SHAR02	PDS	FB	80	27920	3	100	1
ABJ.H09F210.AABJTLIB		Z1130D, Z1130T	SHAR02	PDS	FB	80	27920	1	100	1
ABJ.H09F210.SABJCLST		Z1130T	SHAR01	PDS	FB	80	27920	7	100	1
ABJ.H09F210.SABJLCP		Z1130T	SHAR01	PDS	FB	80	27920	57	100	1
ABJ.H09F210.SABJMLIB		Z1130T	SHAR01	PDS	FB	80	27920	1	100	1
ABJ.H09F210.SABJMOD1		Z1130T	SHAR01	PDS	U		32760	17	100	1
ABJ.H09F210.SABJPLIB		Z1130T	SHAR01	PDS	FB	80	27920	11	100	1
ABJ.H09F210.SABJSAM1		Z1130T	SHAR01	PDS	FB	80	27920	10	100	1
ABJ.H09F210.SABJSAM2		Z1130T	SHAR01	PDS	VB	1028	27998	32	100	1



Close

2013

Notice that all data sets are on SHAR04.



Software Management ▶ Software Instances

View Data Sets

Selected software instance: MASTER_zOS_R13_w/Other_Product on system LOCAL

SMP/E Managed Data Sets Non-SMP/E Managed Data Sets

Actions V Match: All filters										
Data Set Name	Messages	Zone Names	Volumes	Data Set Type	RECFM	LRECL	BLKSIZE	Tracks	% Used	Extents
Filter	Filter	Filter	Filter	Contains "ZFS"	Filter	Filter	Filter	Filter	Filter	Filter
SMLAB01.COB32.ZFS		COB320T	SHAR04	ZFS				15		
SMLAB01.JAVA31V7		Z1130T	SHAR04					5310		
SMLAB01.JAVA64V7		Z1130T	SHADA					6795		
SMLAB01.NETVHFS		Z1130T						125		
SMLAB01.PLI41.ZFS		Ontion	ally, voi	u can chai	nge the	filter to	o onl	V		
SMLAB01.ROOT		•								
SMLAB01.SBBN7HFS		snov	N N SAIM	data sets	(tor thi	s insta	nce t	ine		

SMP/E Global CSI data set), PDSes or PDSEs. Or you can clear the filter to see all data sets.

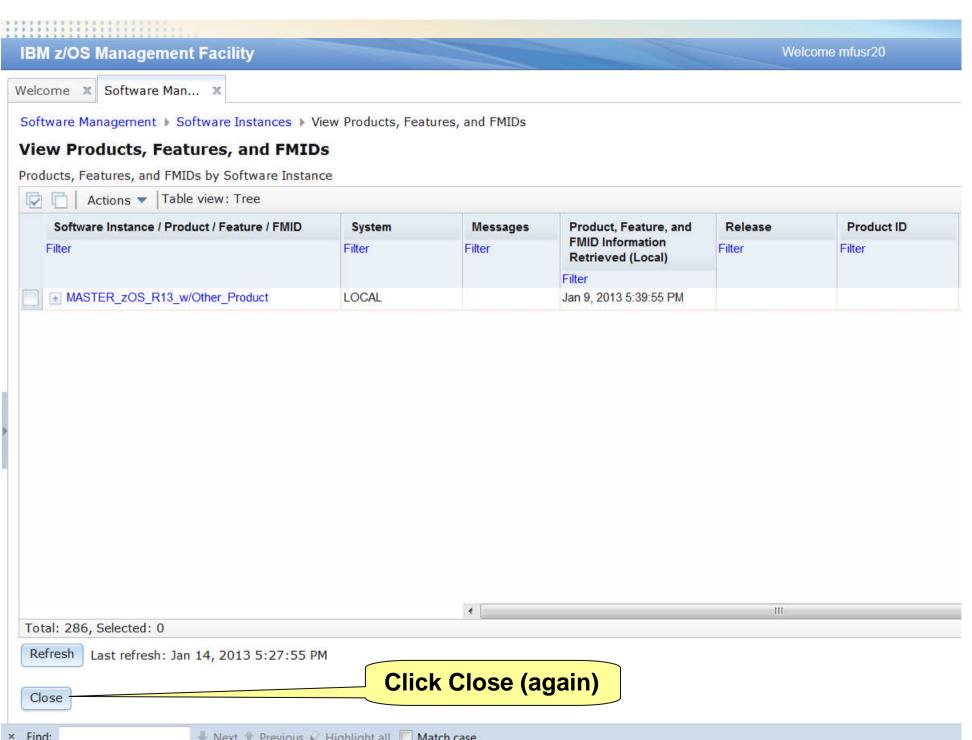
SMLAB01.SHPHROOT	Em	<i>y</i> • • • • • • • • • • • • • • • • • • •					
SMLAB01.SHPUROOT	Z1130T	SHAR04	ZFS	150			
SMLAB01.SIBMROOT	Z1130T	SHAR04	ZFS	30			
SMLAB01.SIGYROOT	Z1130T	SHAR04	ZFS	16			
SMLAB01.SIZUROOT	Z1130T	SHAR04	ZFS	3705			
SMLAB01.TKANROOT	Z1130T	SHAR04	ZFS	16			

Total: 1173, Filtered: 15

SMLAB01.SHAPHFS SMLAB01.SHPEROOT

Close

When you are done viewing data sets, click Close

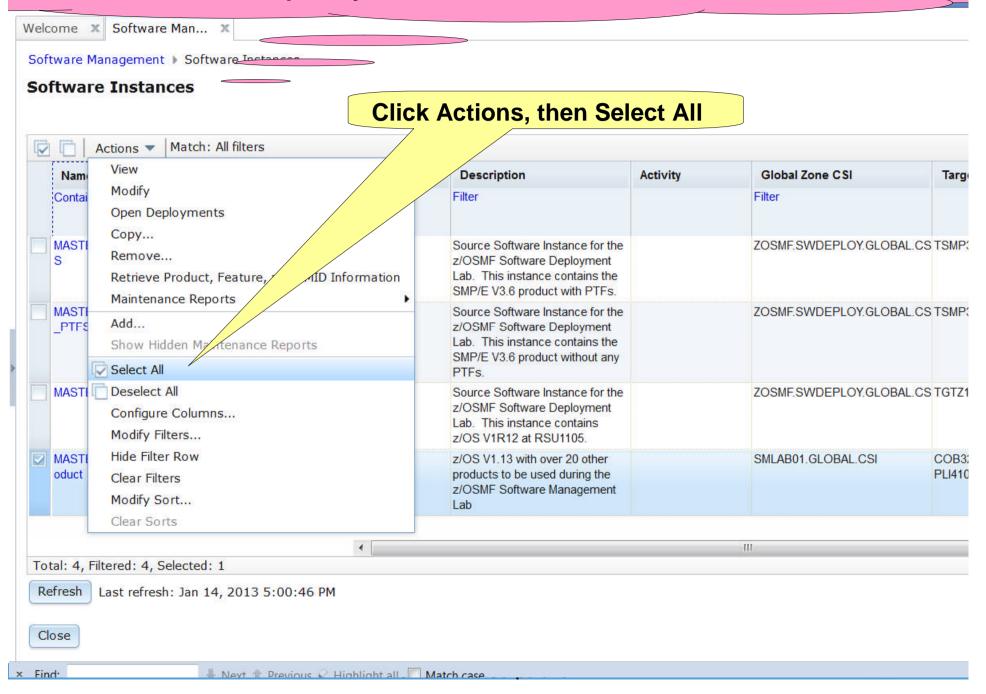


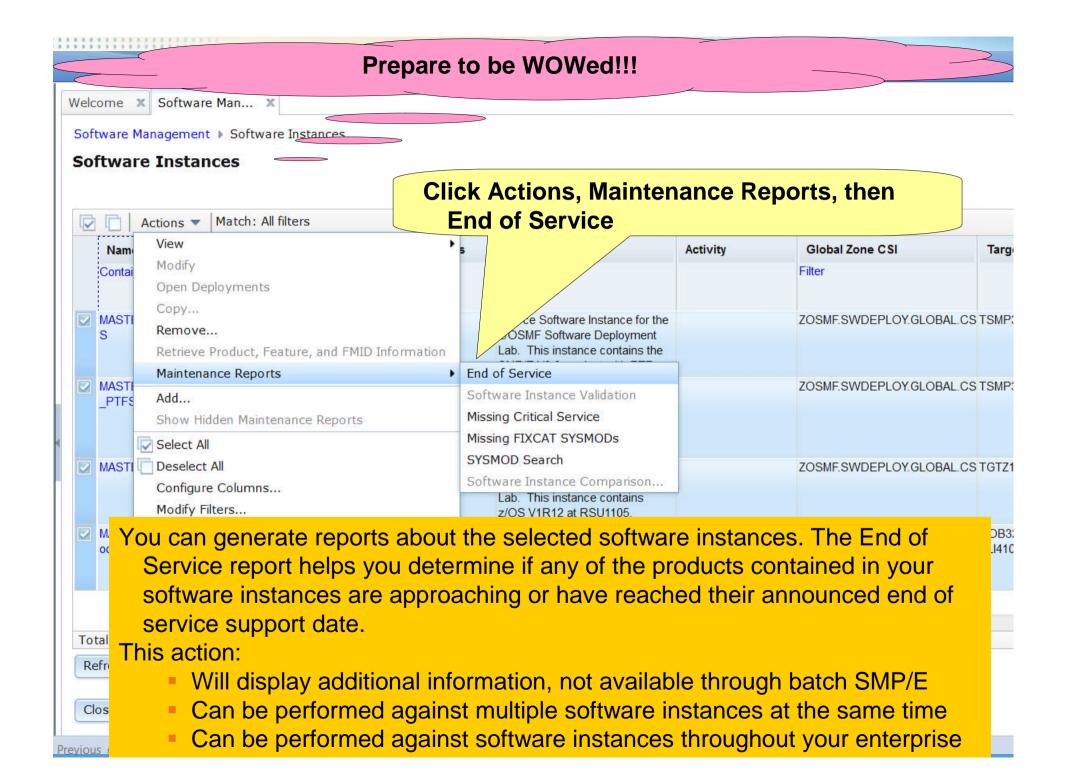


Step 4a: Report on "Master" Software Instances' End of Service

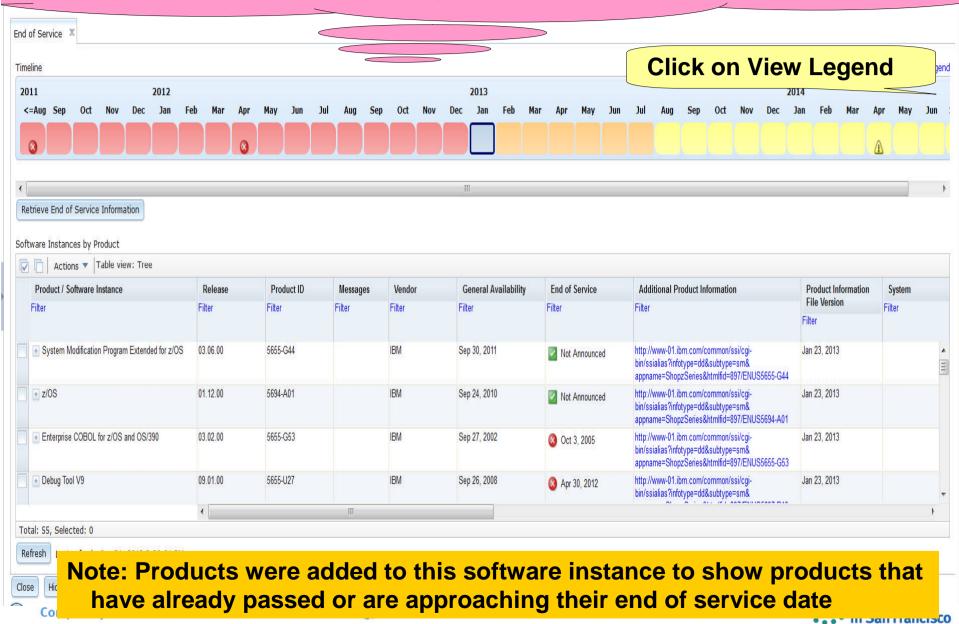


For the first set of reports you will use all "Master" software instances

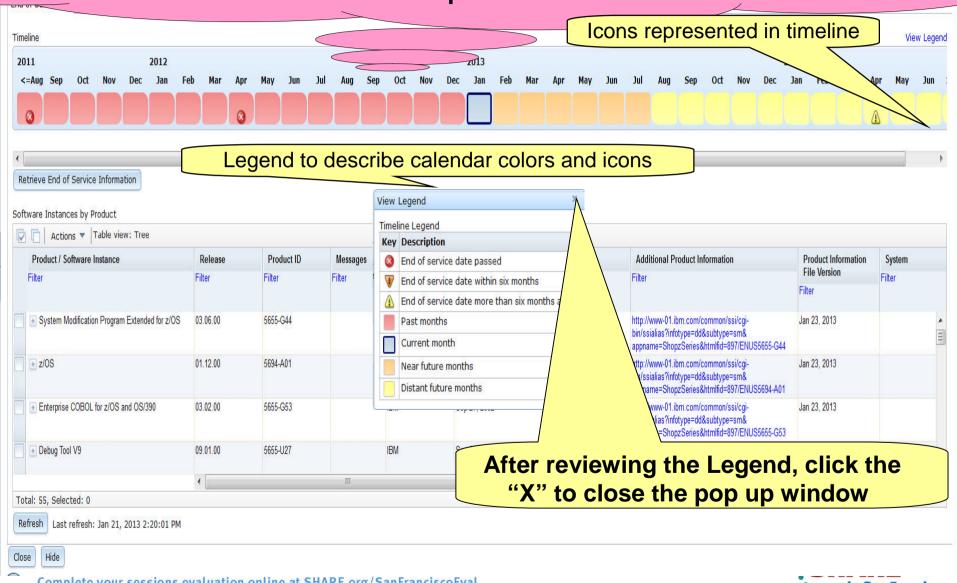


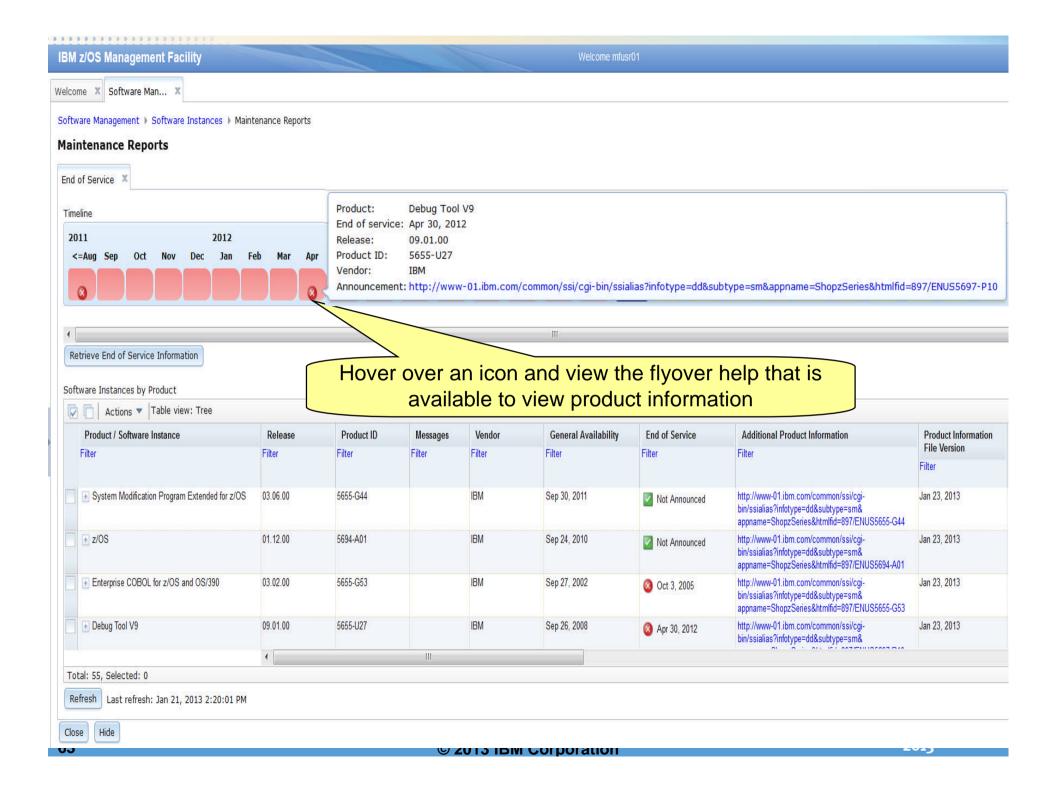


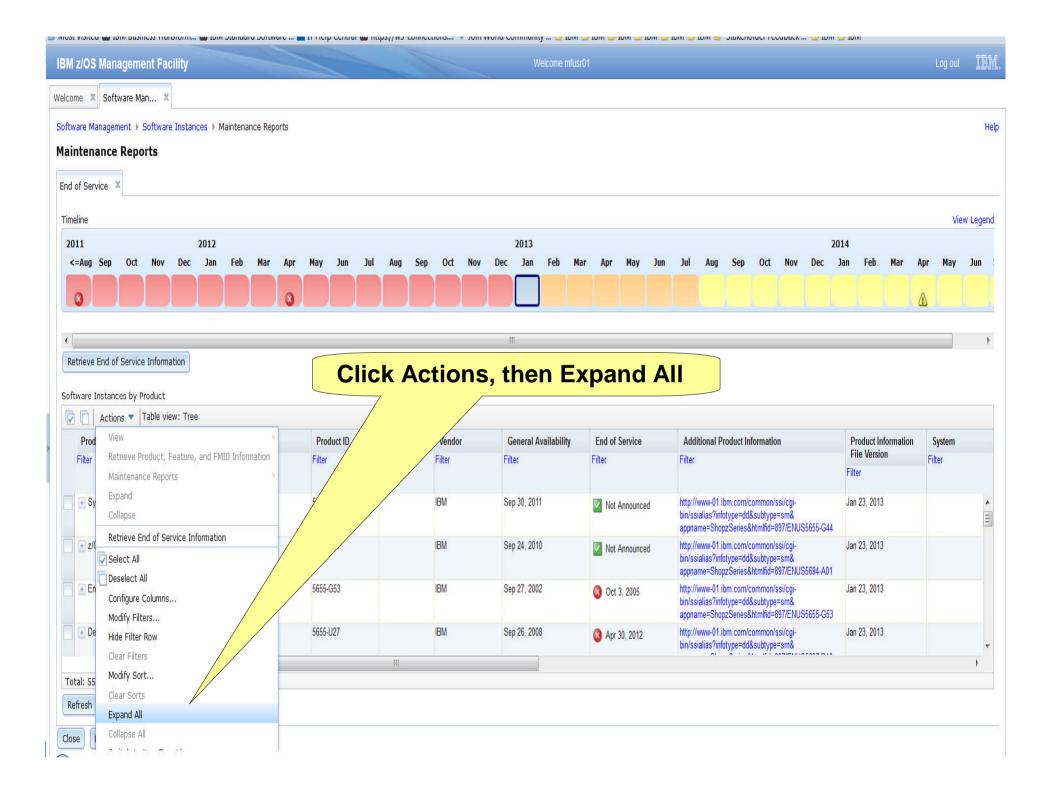
The display shows any product that was in a selected software instance with information about the product's general availability and end of service

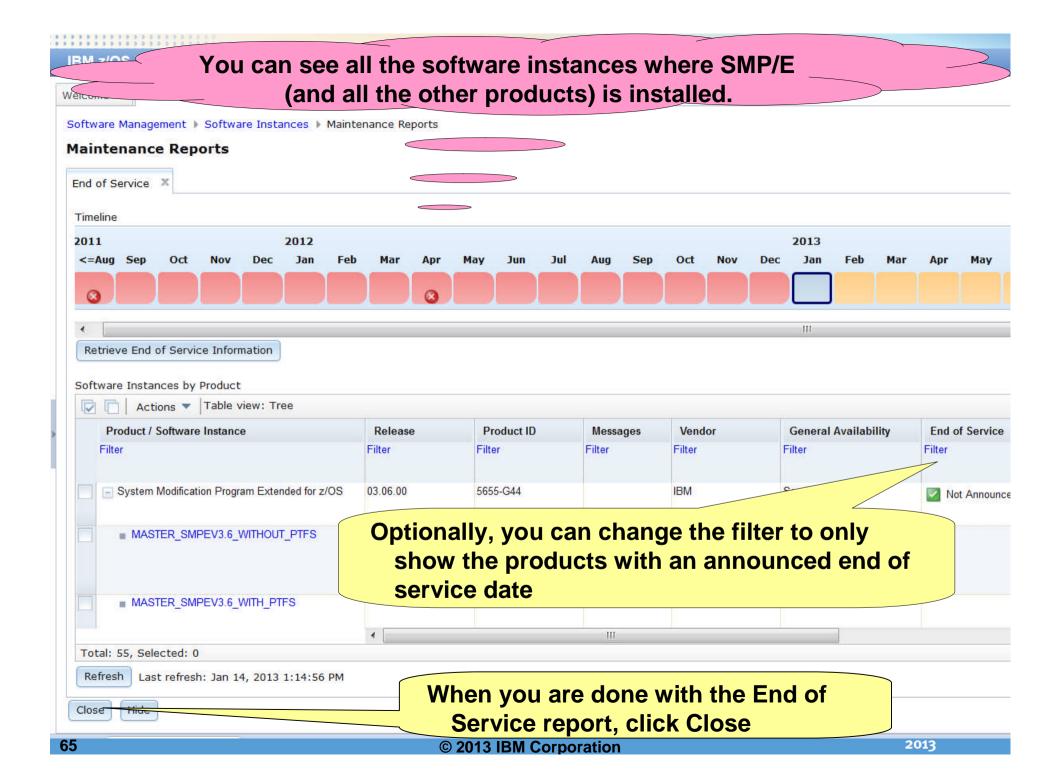


Notice that the scrollable timeline has icons and that any product that has an announced End of Service date has an icon. The table below shows all products.







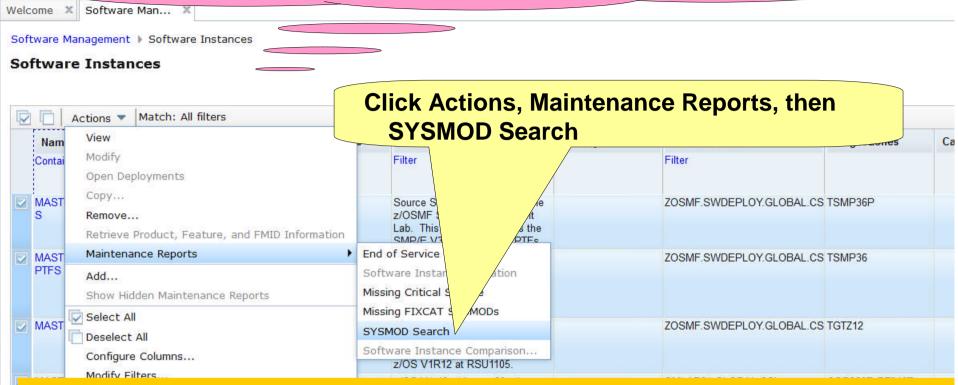




Step 4b: Report on "Master" Software Instances' SYSMOD Search



Now you will perform a Cross Zone Query on steroids!!!!

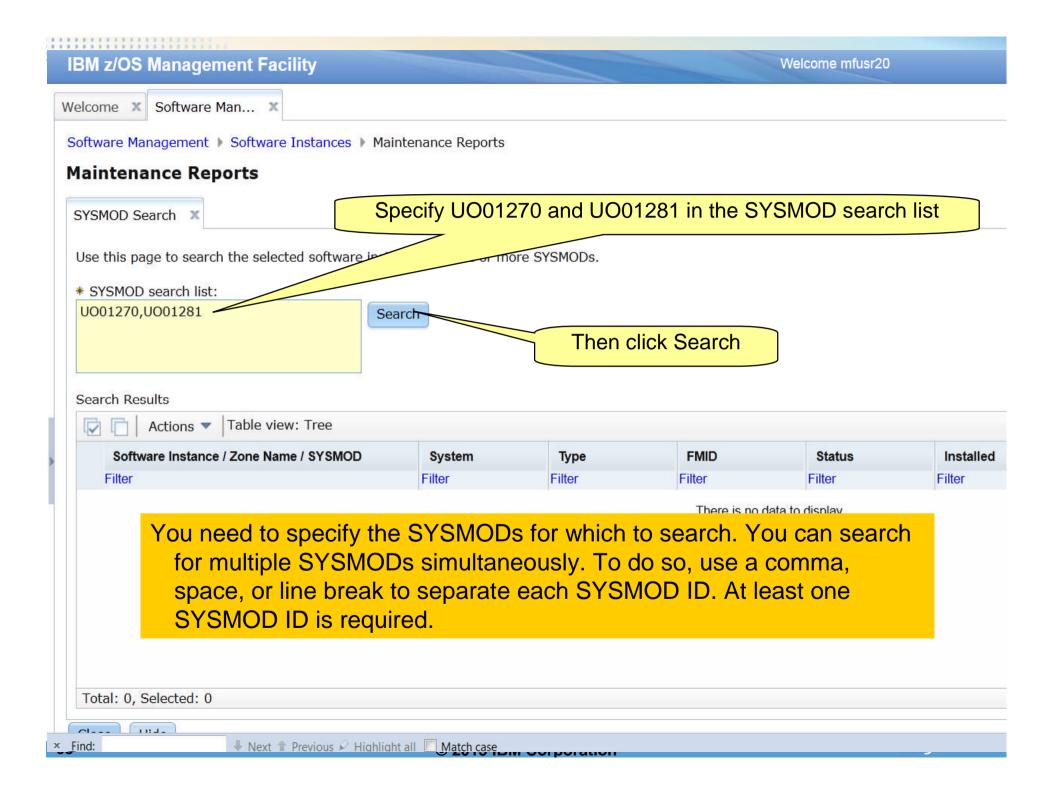


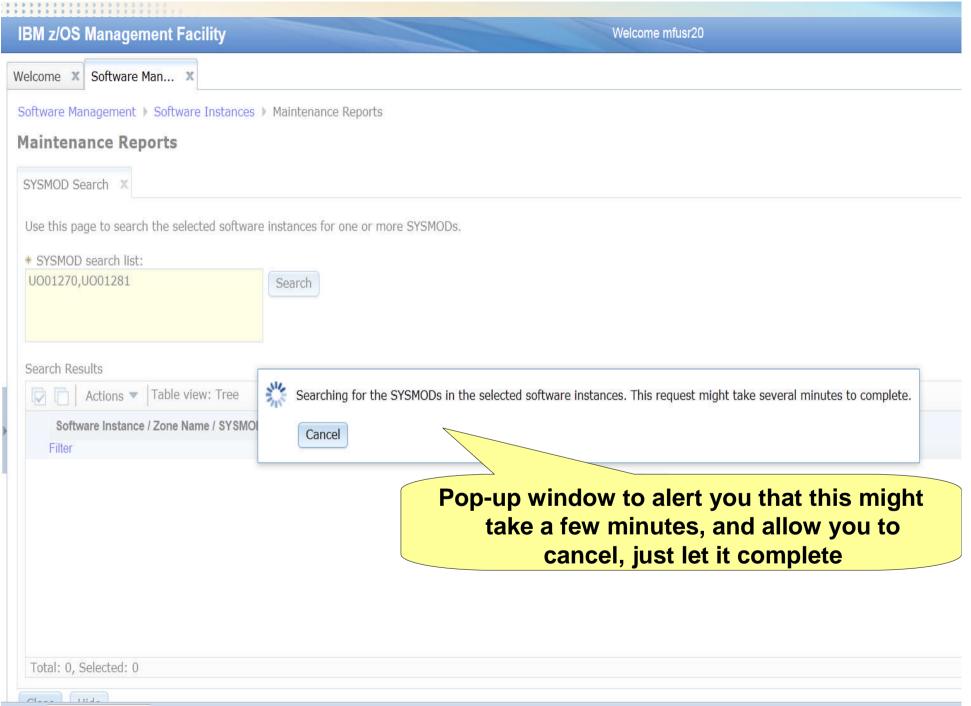
The SYSMOD Search capability helps you determine if your software instances contain the SYSMODs in which you are interested. This could be to determine:

- If you already installed the fix that a vendor suggested that you install,
- If you already installed a Red Alert or fix associated with security/integrity APAR
- How many software instances are affected by a specific PTF that went PE

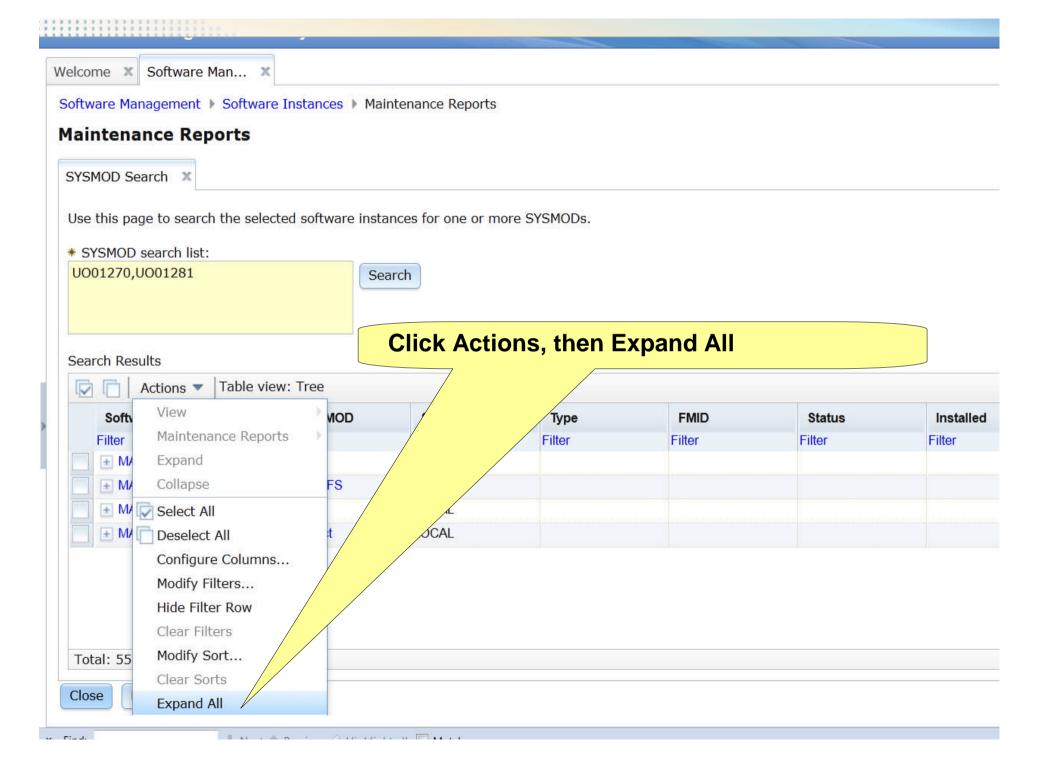
While similar to cross zone query, this action can be performed:

- For multiple SYSMODs at the same time
- Against multiple software instances at the same time
- Against software instances throughout your enterprise





Results shown in a scrollable tree table. You will have to expand each row to see the actual results. Software Management > Software Instances > Management **Maintenance Reports** SYSMOD Search X Use this page to search the selected software instances for one or more SYSMODs. * SYSMOD search list: UO01270,UO01281 Search Search Results Table view: Tree Actions * Software Instance / Zone Name / SYSMOD System Type **FMID** Status In Filter Filter Filter Filter Filter Filte LOCAL LOCAL **MASTER ZOSV1.12** LOCAL LOCAL Total: 55, Selected: 0 01--- 11:4-



In one request, you queried 4 software instances using 2 different GLOBAL zones for 2 SYSMODs. This simple query would take at least 4 user interactions using SMP/E's cross zone query.



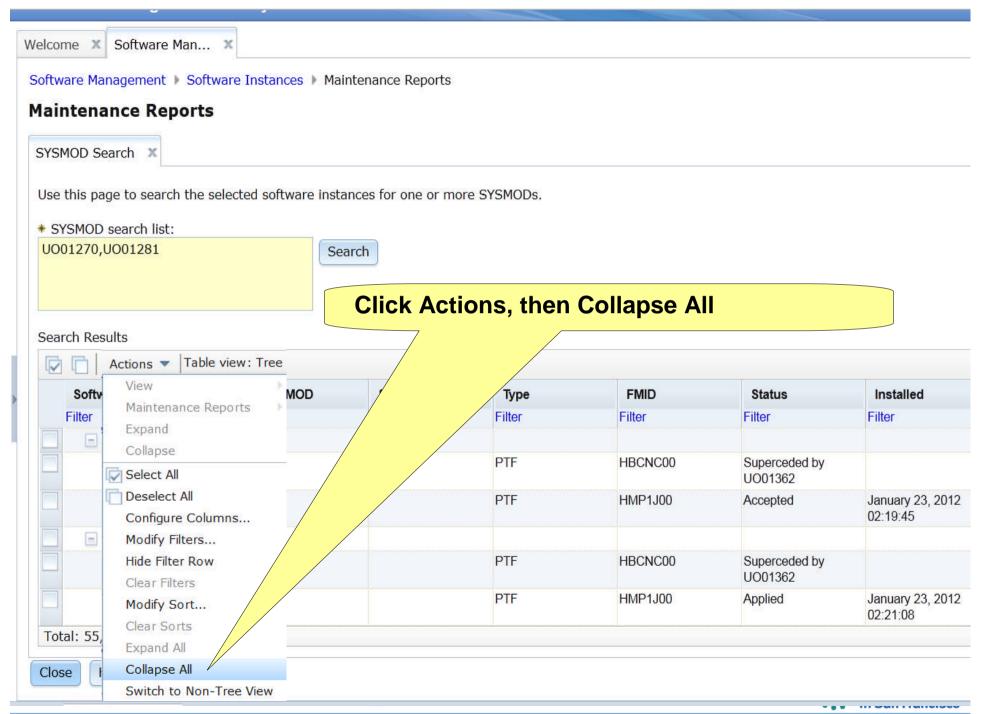
Mara information is displayed usin

More information is displayed using Software Management; and you can query multiple SYSMODs, across multiple GLOBAL zones, possibly residing in separate sysplexes, possibly even in different locations, at the same time!!!

```
Entry Type:
             SYSMOD
Entry Name:
             U001270
To return to the previous panel, enter END .
To select an entry from a zone, enter S next to the zone.
     * - Entry not found in zone.
    ** - Zone could not be allocated or is not initialized.
                                 Status
   ZONE
            TYPE
                     FMID
                               STATUS
                                        DATE
                                                 TIME
                                                           REWORK
   DLBZ12
            PTF
                     HBCNC00
                                        11.255
                                                 08:26:10
                              SUP
  DSMP36
  DSMP36P
                               SUP
  GLOBAL
            PTF
                               REC
                                        12.016
                                                 15:23:34
                                        11.214
                                                 11:28:39
   TGTZ12
            PTF
                     HBCNC00
                              SUP
   TSMP36
   TSMP36P
                               SUP
```

Using SMP/E's Cross Zone Query, only 1 SYSMOD at a time can be queried in only 1 GLOBAL zone.

Complete your sessions evaluation online at SHARE.org/SanFranciscoEval



♣ Next ★ Previous ♠ Highlight all Match case

× Find:

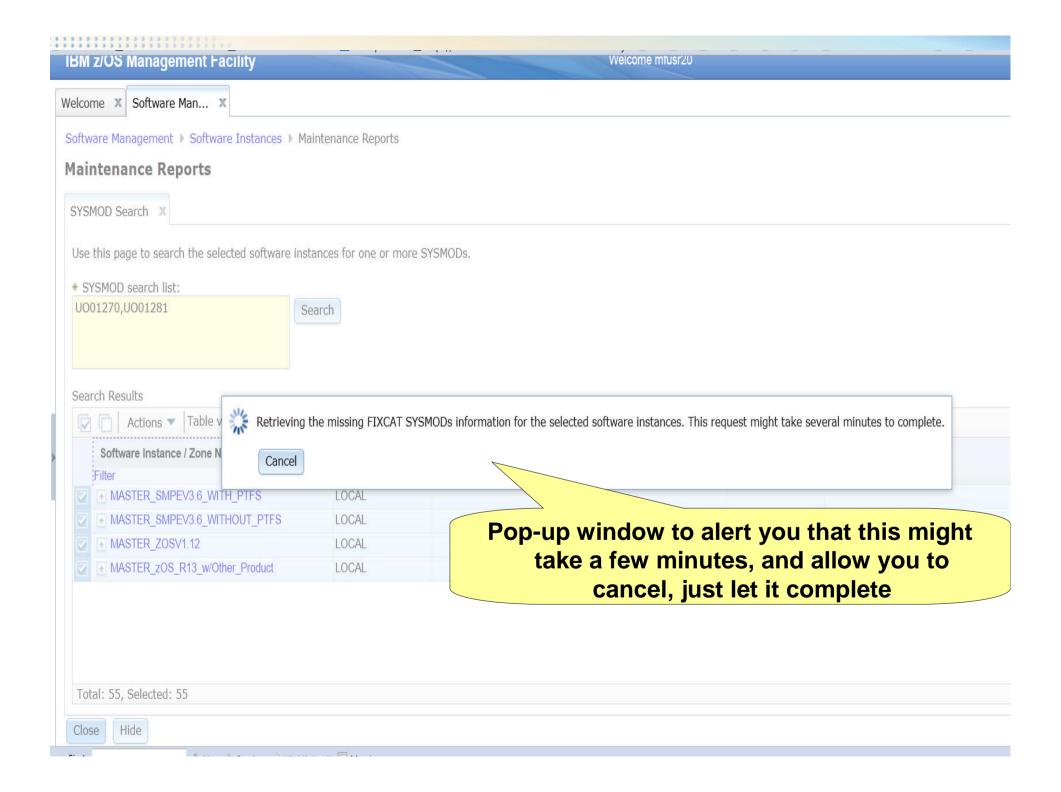


Step 4c: Report on "Master" Software Instances' Missing FIXCAT SYSMODs



Next you will look for missing fixes associated with one or more SMP/E Fix Categories.

Software Management > Software Instances **Maintenance Reports** SYSMOD Search X Use this page to search the selected software instances for one or more SYSMODs. * SYSMOD search list: **Click Actions, Maintenance Reports, then** UO01270,UO01281 **Missing FIXCAT SYSMODs** Search Results Actions * Table view: Tree **FMID** Softv MOD System Type Status In End of Service Maintenance Reports Filter Filter Filte Software Instance Va Expand + MA Missing Critical Service Collapse + MA Missing FIXCAT SYSMODs + M/ Select All + M Deselect All Software Instance Comparison... The Missing FIXCAT SYSMODs reports helps you identify any unsatisfied hardware or software requisites that are required for a specific category of software fixes. While similar to REPORT MISSINGFIX, this action: Tota Can be performed against multiple software instances at the same time Close Can be performed against software instances throughout your enterprise

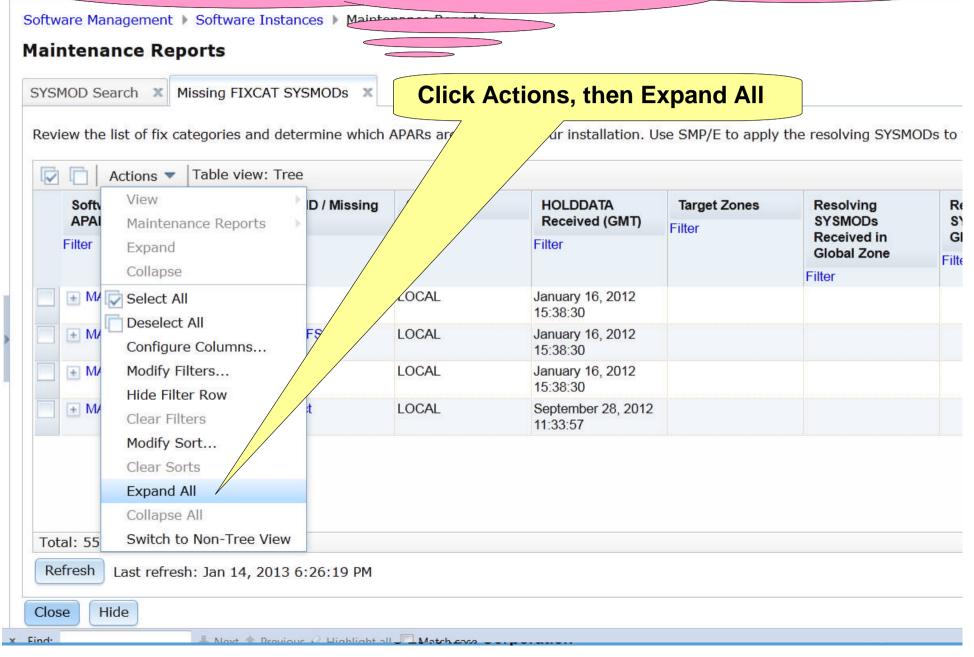


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Results shown in a scrollable tree table. You will

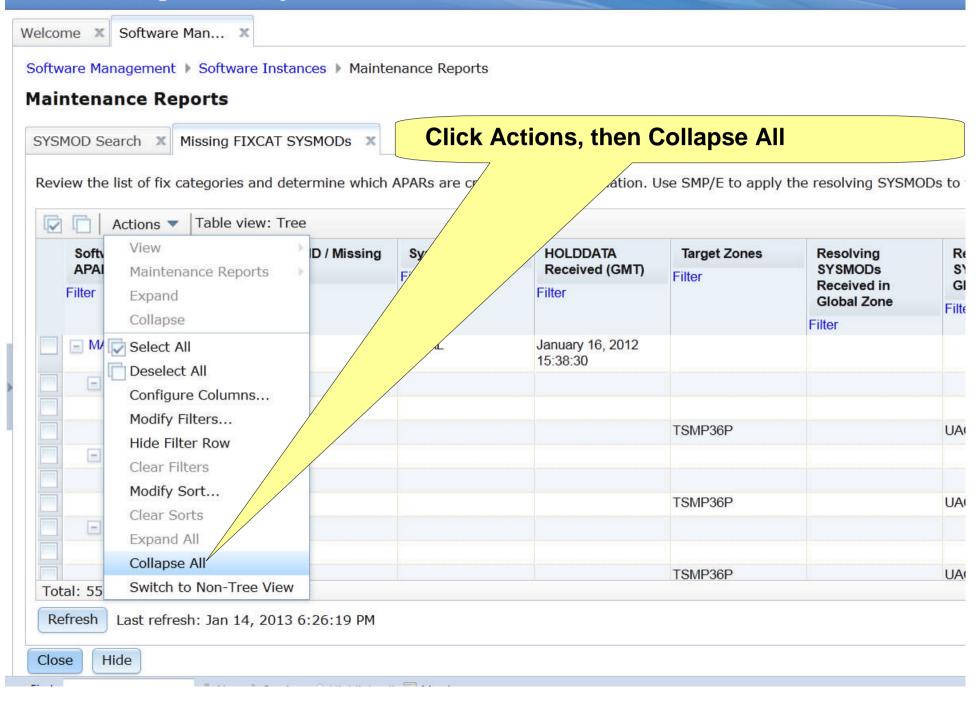
SMOD Search Missing FIXCAT SYSMODS X	ADADa ara svitis	and for your installation. He	o CMD/E to apply	the receluing CVCM	DDs to the garrage di	ng torget zone
eview the list of fix categories and determine which Table view: Tree	APARS are Cruc	al for your installation. Os	е эмгле со арргу	the resolving SYSMC	DDS to the correspondi	ng target zone.
Software Instance / Fix Category / FMID / Missing	System	HOLDDATA	Target Zones	Resolving SYSMODs	Resolving	FMID Descripti
APAR Filter	Filter	Received (GMT) Filter	Filter	Received in	SYSMODs Not in Global Zone	Filter
				Global Zone Filter	Filter	
■ MASTER_SMPEV3.6_WITH_PTFS	LOCAL	January 16, 2012 15:38:30		7.1101		
■ MASTER_SMPEV3.6_WITHOUT_PTFS	LOCAL	January 16, 2012 15:38:30				
■ MASTER_ZOSV1.12	LOCAL	January 16, 2012 15:38:30				
	LOCAL	September 28, 2012 11:33:57				
otal: 556, Selected: 0						

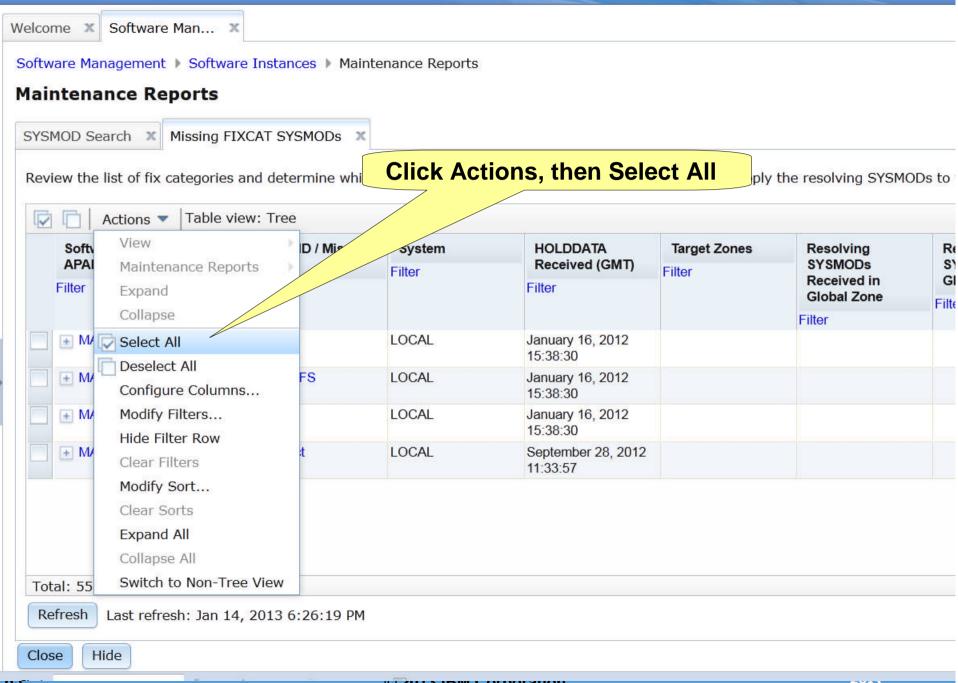
Notice that a second tab was created under Maintenance Reports. You can go back to prior reports by clicking the appropriate tab.



Similar to REPORT MISSINGFIX Output

are Management Software Instances Mainte	enance Reports					
tenance Reports						
IOD Search X Missing FIXCAT SYSMODs X						
Pilosing PACKI STOPICES						
ew the list of fix categories and determine which	APARs are critic	al for your installation. U	Jse SMP/E to apply	the resolving SYSM	ODs to the correspondi	ng target zone.
□ • · · · □ Table of some Table			A16 262 02	525	*	
☐ Actions ▼ Table view: Tree						
Software Instance / Fix Category / FMID / Missing APAR	System	HOLDDATA Received (GMT) Filter	Target Zones Filter	Resolving SYSMODs	Resolving SYSMODs Not in Global Zone	FMID Description
Filter	Filter			Received in		Filter
		T III.OF		Global Zone	Filter	
				Filter		
MASTER_SMPEV3.6_WITH_PTFS	LOCAL	January 16, 2012 15:38:30				
☐ IBM.Coexistence.z/OS.V1R11						
HMP1J00						SMP/E Base
■ AACOEX1			TSMP36P		UACOEX2	
■ IBM.Coexistence.z/OS.V1R12						
■ HMP1J00						SMP/E Base
■ AACOEX1			TSMP36P		UACOEX2	
■ IBM.Coexistence.z/OS.V1R13						
■ HMP1J00						SMP/E Base
■ AACOEX1			TSMP36P		UACOEX2	
al: 556, Selected: 0						

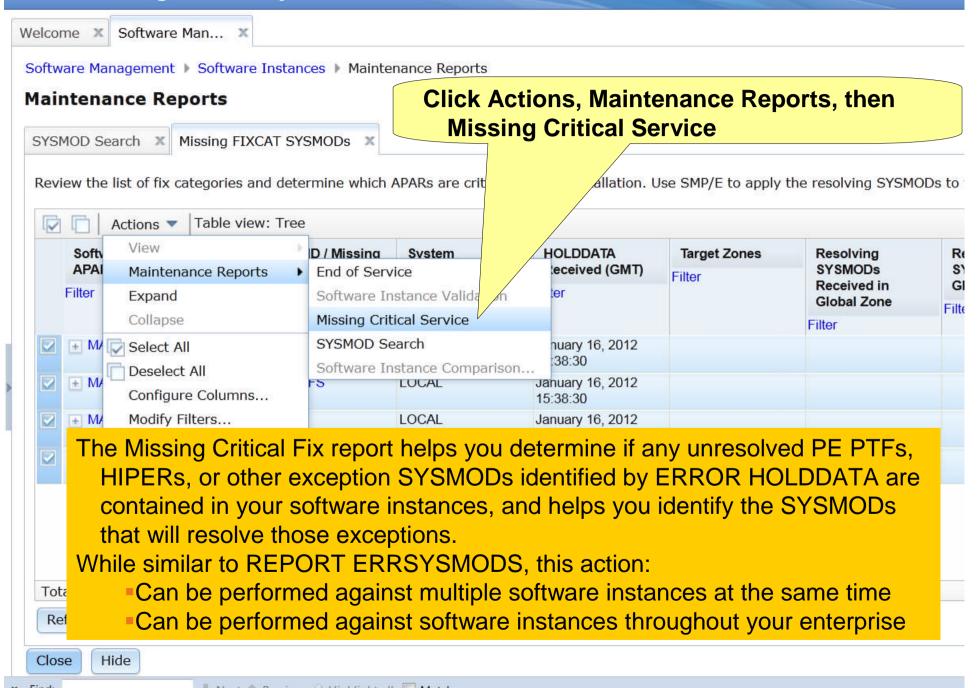






Step 4d: Report on "Master" Software Instances' Missing Critical Fixes





		C 7	/ m l
115	IWI	V A	

Results shown in a scrollable tree table. You will have to expand each row to see the actual results.

Software Management > Software Instance Reports

Maintenance Reports

Table view: Tree

SYSMOD Search × Missing FIXCAT SYSMODs × Missing Critical Service ×

Review the list of critical service and determine which service are critical for your installation. Use SMP/E to apply the resolving service to the

Software Instance / FMID / Held SYSMOD /	System	HOLDDATA	Target Zones	Resolving SYSMODs	R
Missing APAR	Filter	Received (GMT)	Filter		S
Filter		Filter		Received in Global Zone	GI Filte
				Filter	
■ MASTER_SMPEV3.6_WITHOUT_PTFS	LOCAL	January 16, 2012 15:23:46			
■ MASTER_ZOSV1.12	LOCAL	January 16, 2012 15:23:46			
■ MASTER_zOS_R13_w/Other_Product	LOCAL	September 28, 2012 11:33:57			

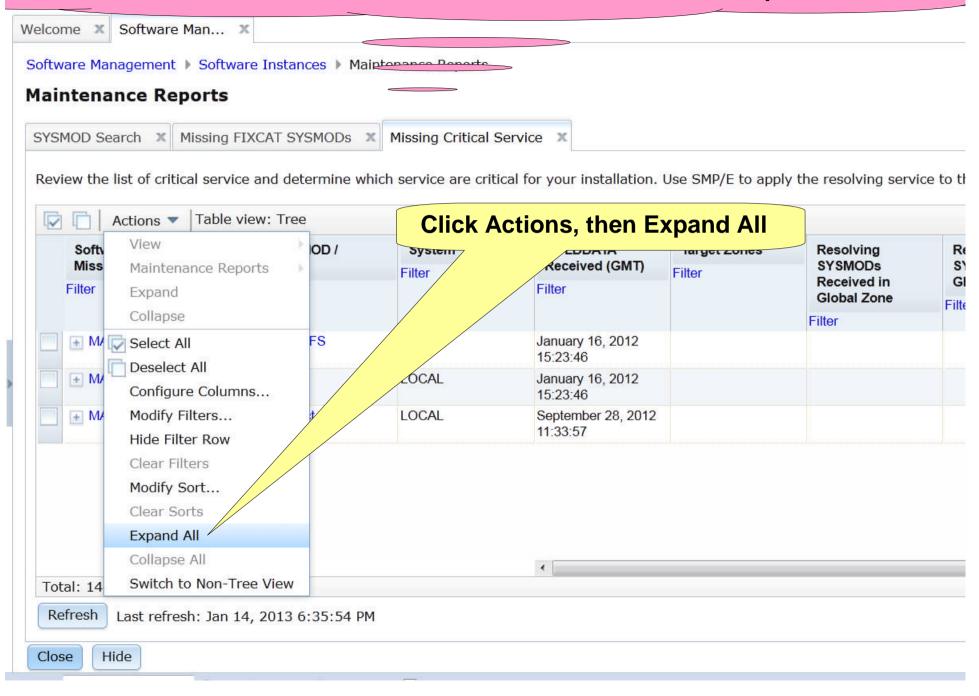
Total: 149, Selected: 0

Refresh Last refresh: Jan 14, 2013 6:35:54 PM

Close

Hide

Notice that a third tab was created under Maintenance Reports.



Close

Hide

IBM 7/0

Welcome

Now you are going to change the view and add a filter to identify missing HIPERs

Software Management > Software Instances > Maintenance Poports

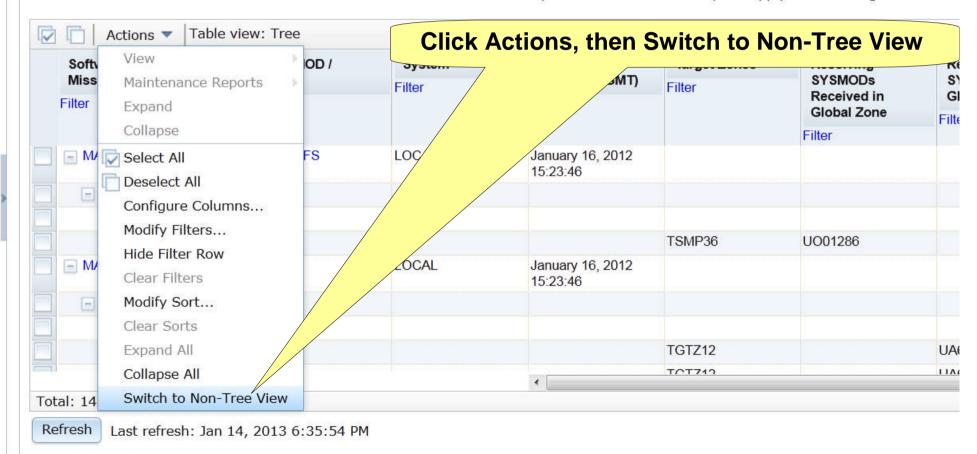
Maintenance Reports

Hide

Close

SYSMOD Search X Missing FIXCAT SYSMODs X Frissing Critical Service X

Review the list of critical service and determine which service are critical for your installation. Use SMP/E to apply the resolving service to the



IBM z/OS Management Facility

☐ Actions ▼ Table view: Non-tree

Software Management Software Instances Maintenance Reports

Maintenance Reports

Welcome X Software Man... X

SYSMOD Search X Missing FIXCAT SYSMODS X Missing Critical South Click on the filter in the Hold Class column

Review the list of critical service and determine which service are critical for your installation. Use SMP/E to apply the resolving service to the corresponding service and determine which service are critical for your installation.

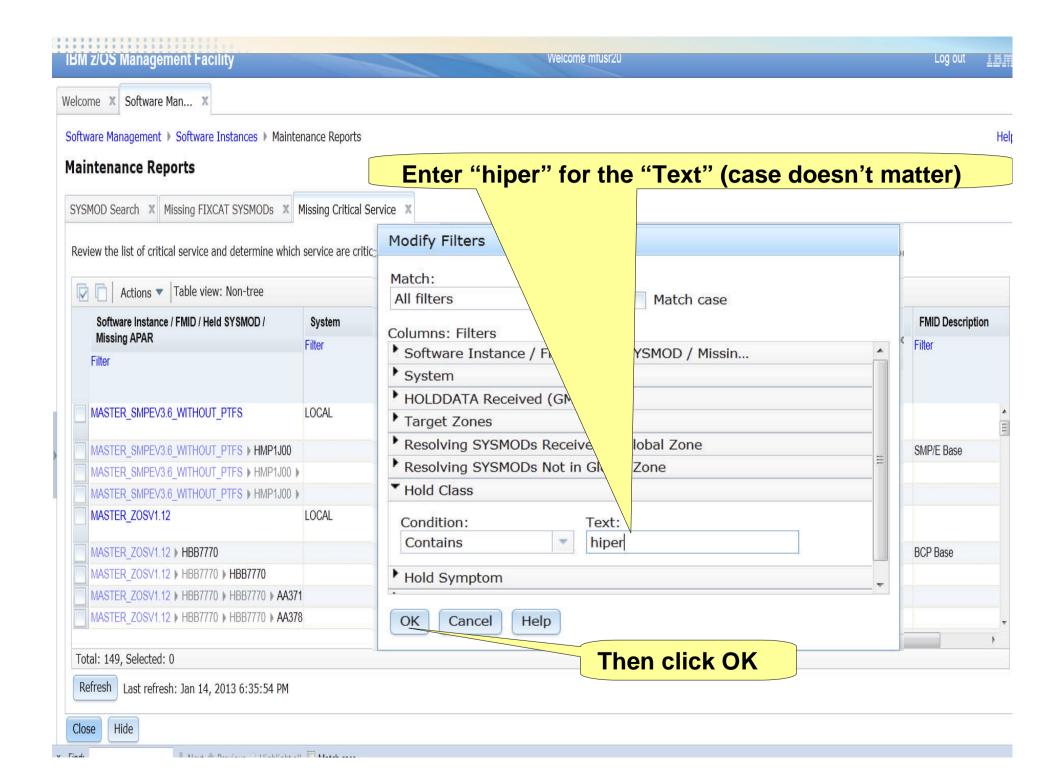
Software Instance / FMID / Held SYSMOD /	System		Target Zones	Resolving	Resolving	Hold Class	Hold Symptom	FMID Description
Missing APAR Filter	Filter Received (GMT) Filter	Filter	SYSMODs Received in Global Zone	SYSMODs Not in Global Zone	Filter	Filter	Filter	
MASTER_SMPEV3.6_WITHOUT_PTFS	LOCAL	January 16, 2012 15:23:46		i iitoi				
MASTER_SMPEV3.6_WITHOUT_PTFS > HMP1J00								SMP/E Base
MASTER_SMPEV3.6_WITHOUT_PTFS > HMP1J00 >								
MASTER_SMPEV3.6_WITHOUT_PTFS > HMP1J00 >			TSMP36	UO01286		HIPER	DAL	
MASTER_ZOSV1.12	LOCAL	January 16, 2012 15:23:46						
MASTER_ZOSV1.12 ▶ HBB7770								BCP Base
MASTER_ZOSV1.12) HBB7770) HBB7770								
MASTER_ZOSV1.12 HBB7770 HBB7770 AA371			TGTZ12		UA63547	HIPER	FUL	
MASTER_ZOSV1.12) HBB7770) HBB7770) AA378	3		TGTZ12		UA63539	HIPER	PRF	
		e e			III			

Total: 149, Selected: 0

Refresh Last refresh: Jan 14, 2013 6:35:54 PM

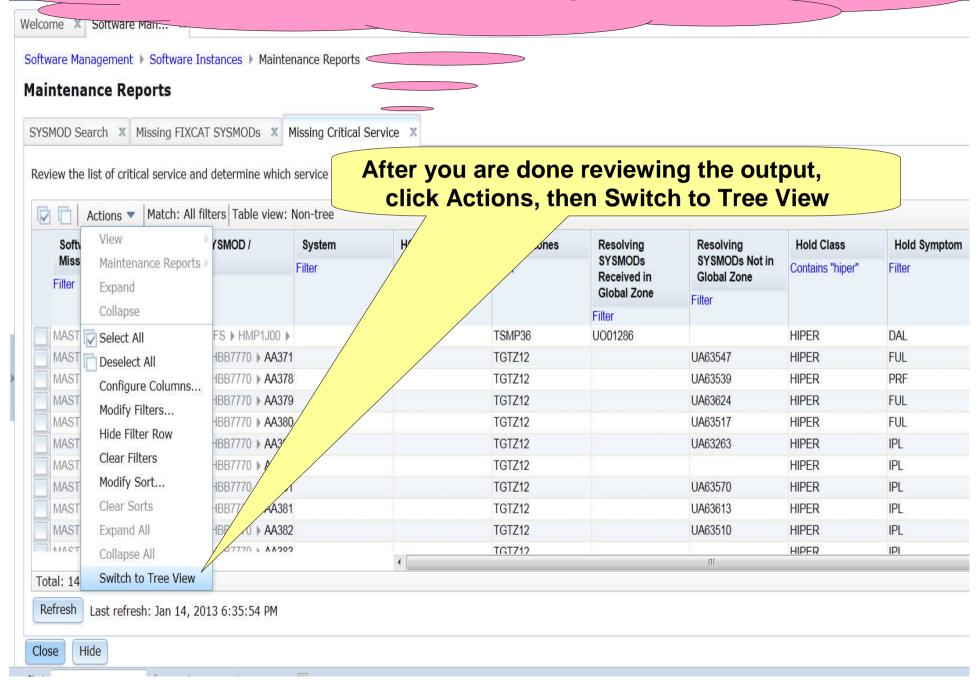
II Mara A Barrana O Headersta an III Maras and

Close Hide



IRM 2/U.S. M.

The table now identifies all mising HIPER fixes.



You will now run a report on a single software instance

Software Management) Software Instances) Maintenance Paparte **Maintenance Reports**

SYSMOD Search X Missing FIXCAT SYSMODs X Missing Critical Service X

Review the list of critical service and determine which service are critical for your installation. Use SMP/E to apply the resolving service to the



Click on MASTER_SMPV3.6_WITHOUT_PTFS software instance

Total: 149, Filtered: 108, Selected: 4

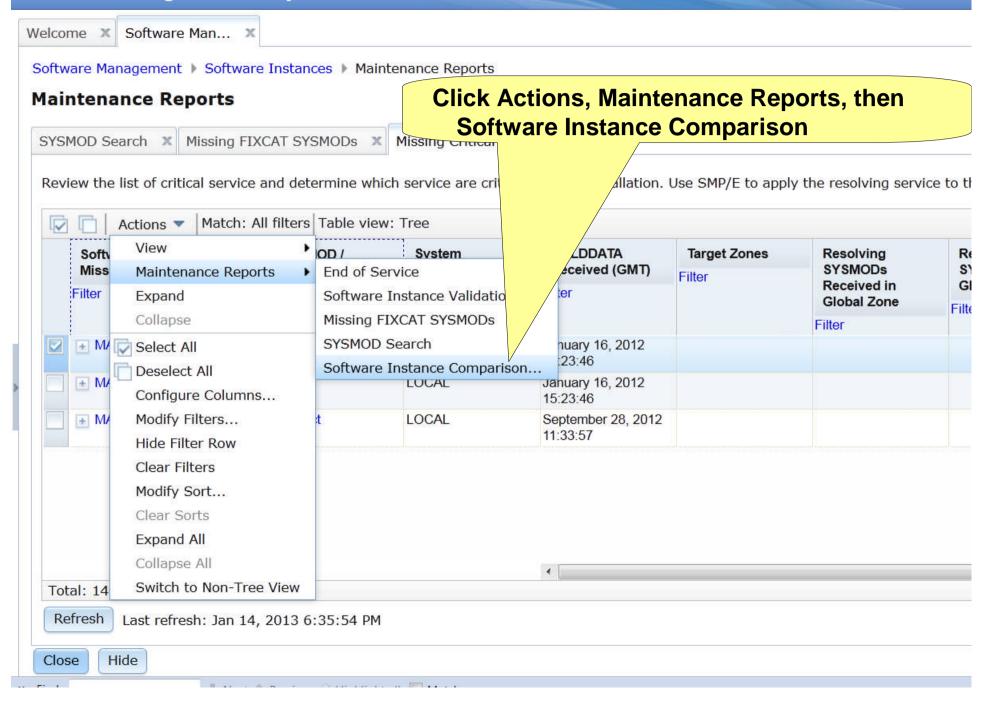
Refresh Last refresh: Jan 14, 2013 6:35:54 PM

Hide Close



Step 4d: Report on "Master" Software Instances' Instance Comparison





IBM 7/01

Now you have to identify the software instance to compare to

Software Management > Software Instances > Macon Sompare Software Instances

Select Software Instance to Compare

When you compare two software instances, the resulting report identifies the SYSMODs found in the second software instance that are not for against the first software instance.

First software instance: MASTER_SMPEV3.6_WITHOUT_PTFS on system LOCAL

Second Software Instance

Name	System	Messages	Description	Activity	Global Zone CSI
Contains "Master"	Filter	Filter	Filter		Filter
MASTER_SMPEV3.6_WITH	H_PT LOCAL		Source Software Instance for the z/OSMF Software Deployment Lab. This instance contains the SMP/E V3.6 product with PTFs.		ZOSMF.SWDEPLO
MASTER_ZOSV1.12			Source Software Instance for the z/OSMF Software Deployment Lab. This instance contains z/OS V1R12 at RSU1105.		ZOSMF.SWDEPLO
MASTER_zOS_R13_w/Oth oduct	er_Pr LOCAL		V1.13 with over 20 other used during the		SMLAB01.GLOBAL
			MASTER_SMPV3.6 are instance	S_WITH_I	PTFS
otal: 3, Filtered: 3, Selecte	ed: 1				
efresh Last refresh: Jan	14, 20		he MASTER_SMPV	O C NAVITI	LDTCC



OK

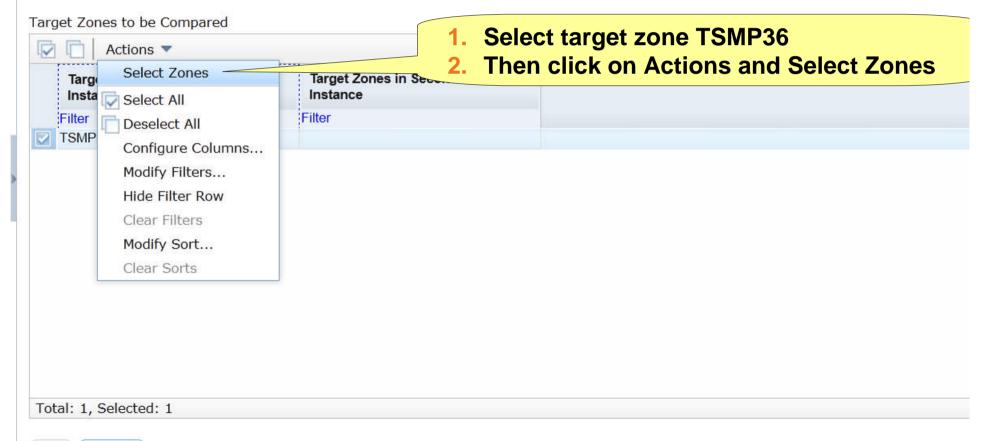
Cancel

Software Management > Software Instances > Maintenance Reports > Select Zones

Select the Zones to Compare

To compare the selected software instances, z/OSMF needs to know which target zones to compare. Use the **Select Zones** action in the **Act**i zone in the first software instance. If the Target Zones in Second Software Instance column is blank, the corresponding target zone in the first software instance.

First software instance: MASTER_SMPEV3.6_WITHOUT_PTFS on system LOCAL Second software instance:MASTER_SMPEV3.6_WITH_PTFS on system LOCAL



IRM S/OS

A pop-up display allows you to select the target zone in the second software instance

Software Management > Software Instances > Maintenances Select the Zones to Compare To compare the selected software instances, z/OSMF needs to know which target range to compare the selected software instances, z/OSMF needs to know which target range to compare the selected software instances, z/OSMF needs to know which target range to compare the selected software instances, z/OSMF needs to know which target range to compare the selected software instances, z/OSMF needs to know which target range to compare the selected software instances, z/OSMF needs to know which target range to compare the selected software instances, z/OSMF needs to know which target range to compare the selected software instances. zone in the first software instance. If the Target Zones in Second Software Insta First software instance: MASTER SMPEV3.6 WITHOUT PTFS on system LOCA Select one or more target zones to compare with the Second software instance: MASTER SMPEV3.6 WITH PTFS on system LOCAL selected target zones. Target Zones to be Compared Selected target zones: TSMP36 Actions * Target Zones in Second Software Target Zone in First Software Instance Instance Filter Filter Compare with: TSMP36 Target Zone in Second Software Instance TSMP36P **Select target zone TSMP36P** 2. Then click OK Total: 1, Selected: 1

OK

Cancel

Help

Total: 1, Selected: 1





Welcome X Software Man... X

Software Management > Software Instances > Maintenance Reports > Select Zones

Select the Zones to Compare

To compare the selected software instances, z/OSMF needs to know which target zones to compare. Use the Select Zones action in the Acti zone in the first software instance. If the Target Zones in Second Software Instance column is blank, the corresponding target zone in the first

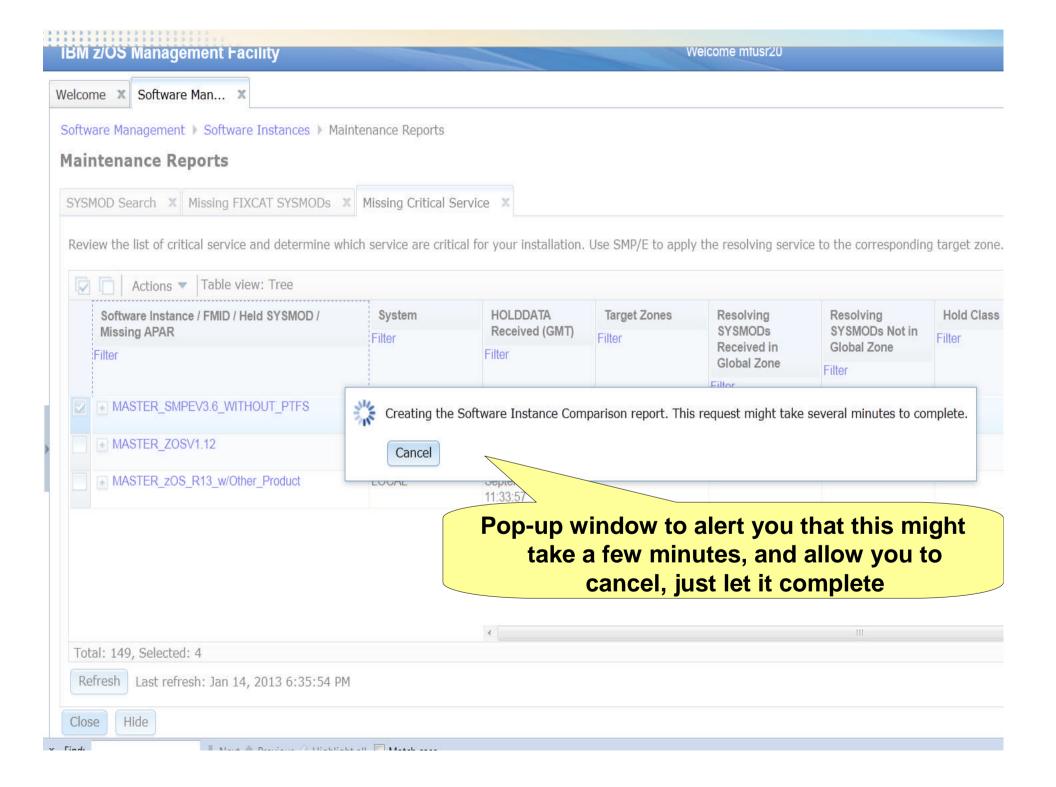
First software instance: MASTER SMPEV3.6 WITHOUT PTFS on system LOCAL Second software instance: MASTER SMPEV3.6 WITH PTFS on system LOCAL

Target Zones to be Compared



Total: 1, Selected: 1

After reviewing the information, Click OK



Results shown in a scrollable tree table. You will have to expand each row to see the actual results.

Software Management > Software Instances > Mailitename

Maintenance Reports

SYSMOD Search X Missing FIXCAT SYSMODs X Missing Critical Service X Software Instance Comparison X

Review the list of SYSMODs found in the second software instance, but not in the first software instance. If the software instances need to I the SYSMODs to the corresponding target zones in the first software instance.

First software instance: MASTER_SMPEV3.6_WITHOUT_PTFS on system LOCAL Second software instance: MASTER_SMPEV3.6_WITH_PTFS on system LOCAL

SYSMODs Not Found in First Software Instance

FMID/SYSMOD Description	Description		Target Zone in First Software	Target Zone in Second Software Instance	SYSMOE Zone
Filter	Filter		Instance		
			Filter	Filter	Filter
± HBCNC00	SMP/E Planning and Migration Assistant Software Info Base				
→ HBCND0B	SMP/E Planning and Migration Assistant				
HMP1J00	SMP/E Base				

Total: 16, Selected: 0

Close

Hide

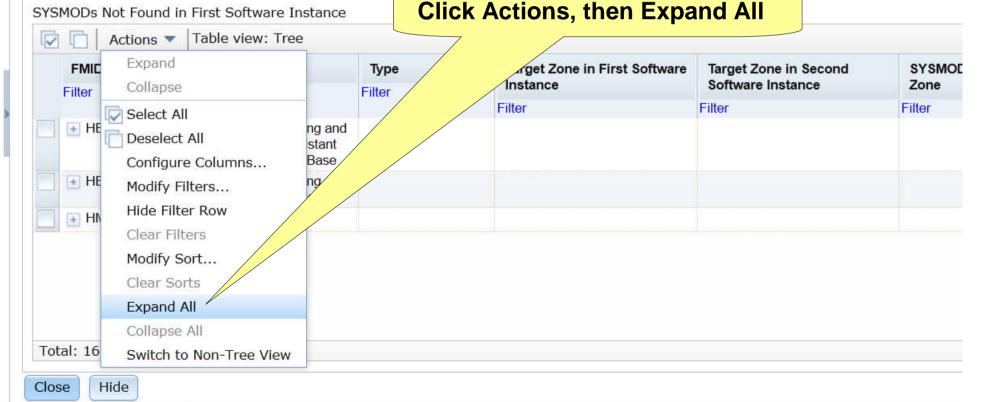
Notice that a fourth tab was created under Maintenance Reports. Welcome Software Management Software Instances Maintenance Reports Maintenance Reports

Review the list of SYSMODs found in the second software instance, but not in the first software instance. If the software instances need to the SYSMODs to the corresponding target zones in the first software instance.

Software Instance Comparison X

First software instance: MASTER_SMPEV3.6_WITHOUT_PTFS on system LOCAL Second software instance: MASTER_SMPEV3.6_WITH_PTFS on system LOCAL

SYSMOD Search X Missing FIXCAT SYSMODS X Missing Critical Service X



Similar to REPORT SYSMODs Output displayed in tree table format. The REPORT SYSMODs command only report on GLOBAL zones that are accessible where the command is run. Software Management can compare software instances where either one of them resides ANYWHERE in your enterprise!!!

SYSMOD Search A Prissing FIACAT STSPILE

Review the list of SYSMODs found in the second software instance, but not in the first software instance. If the software instances need to be at the same service the SYSMODs to the corresponding target zones in the first software instance.

First software instance: MASTER_SMPEV3.6_WITHOUT_PTFS on system LOCAL Second software instance: MASTER_SMPEV3.6_WITH_PTFS on system LOCAL

II Name A Desiration A Distribute of The March of

SYSMODs Not Found in First Software Instance

FMID/SYSMOD	Description	Туре		Target Zone in Second	SYSMOD Received in Global
Filter	Filter	Filter Instance	Software Instance	Zone	
			Filter	Filter	Filter
■ HBCNC00	SMP/E Planning and Migration Assistant Software Info Base				
■ UO01301		PTF	TSMP36	TSMP36P	Yes
■ HBCND0B	SMP/E Planning and Migration Assistant				
UO01185		PTF	TSMP36	TSMP36P	Yes
■ UO01268		PTF	TSMP36	TSMP36P	Yes
■ UR53091		PTF	TSMP36	TSMP36P	Yes
■ HMP1J00	SMP/E Base				
= LIAPTE01		USERMOD	TSMP36	TSMP36P	Yes

Close

To prepare for the next report, you will go back to the Missing Critical Service tab

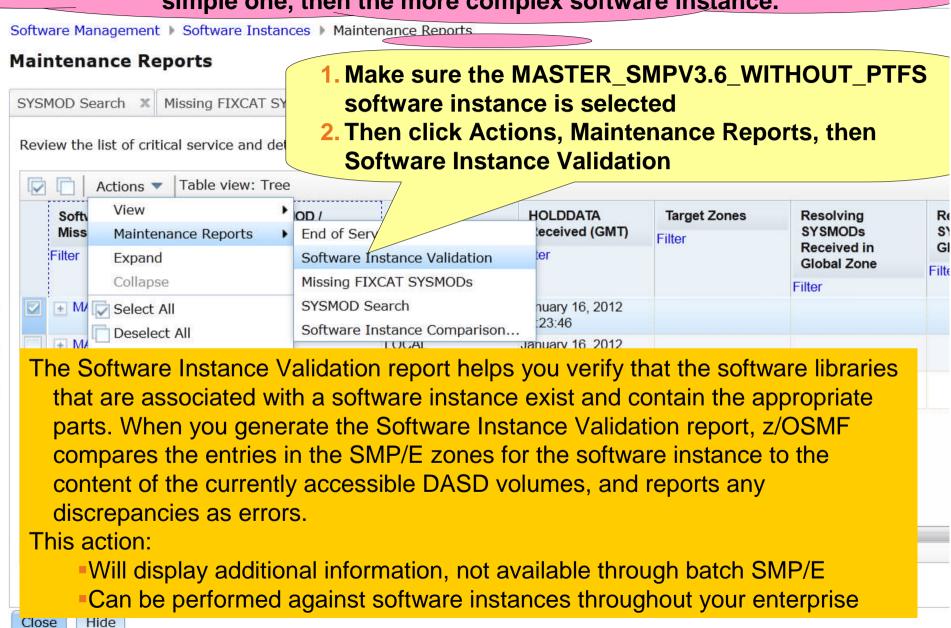
Software Management > Software Instances > Mainten **Maintenance Reports** Missing FIXCAT SYSMODs X Missing Critical Service X Software Instance Comparison X SYSMOD Search X Review the list of SYSMODs found in the second software instance. ot in the first software instance. If the software instances need to be the SYSMODs to the corresponding target zones in the first softwar First software instance: MASTER SMPEV3.6 WITHOUT PTFS on Second software instance: MASTER SMPEV3.6 WITH PTFS on syste **Click on the Missing Critical Service tab** SYSMODs Not Found in First Software Instance Table view: Tree Actions * Description Target Zone in Second FMID/SYSMOD SYSMOD Type Target Zone in First Software Instance Software Instance Zone Filter Filter Filter Filter Filter Filter - HBCNC00 SMP/E Planning and Migration Assistant Software Info Base UO01301 PTF TSMP36 TSMP36P Yes HBCND0B SMP/E Planning and Migration Assistant UO01185 PTF TSMP36 TSMP36P Yes UO01268 PTF TSMP36 TSMP36P Yes UR53091 PTF TSMP36 TSMP36P Yes HMP1J00 SMP/E Base LIAPTEN1 LISERMOD TSMP36 TSMP36P Total: 16, Selected: 0 Hide Close

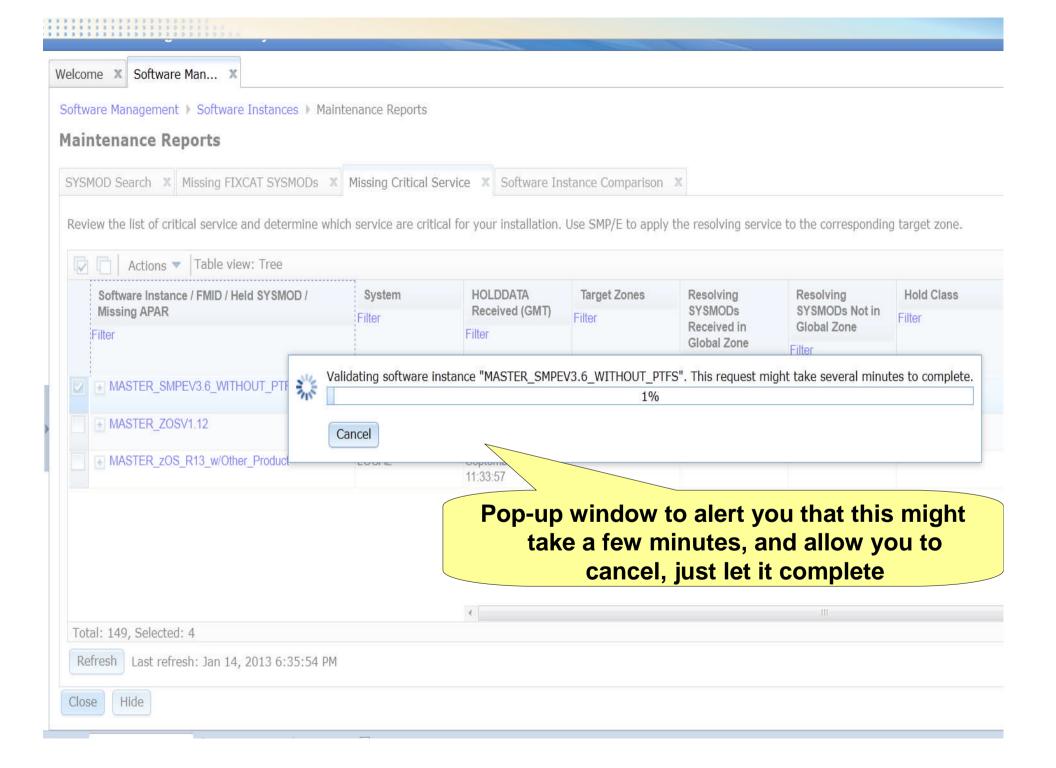


Step 4e: Report on "Master" Software Instances' Instance Validation

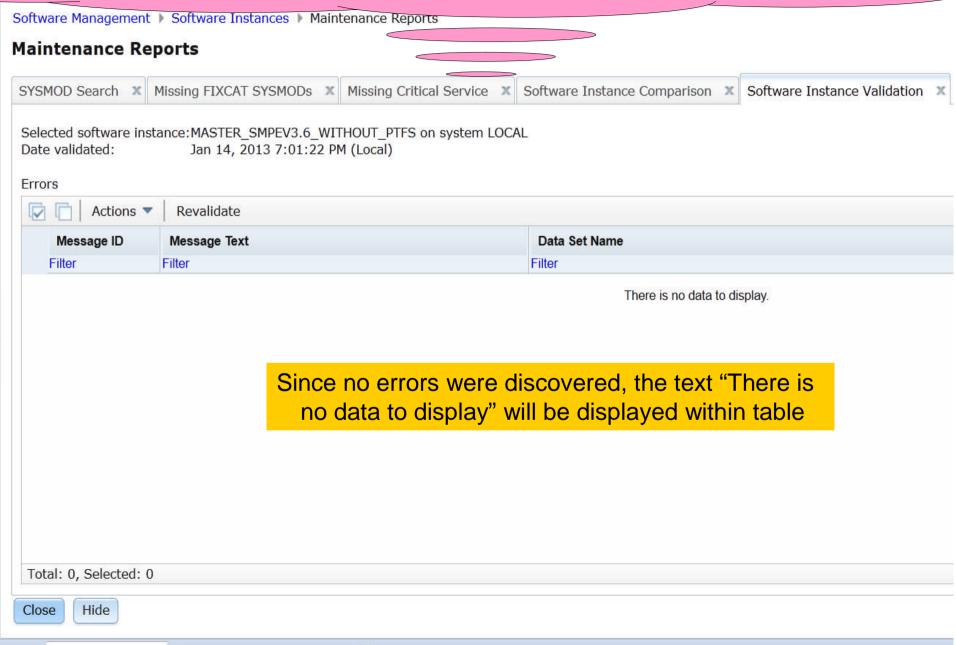


Now you will perform two software instance validation. First the simple one, then the more complex software instance.

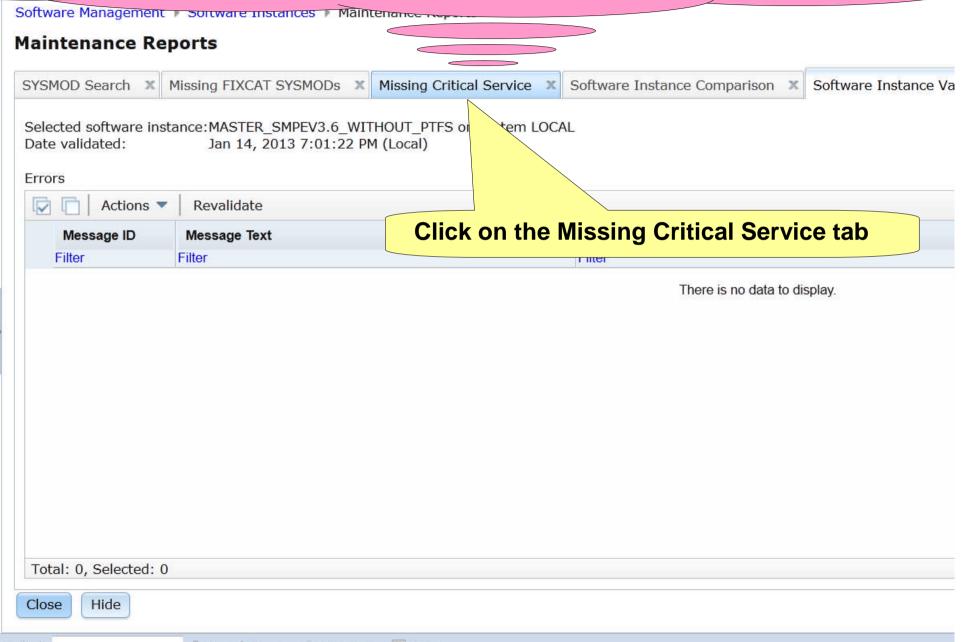


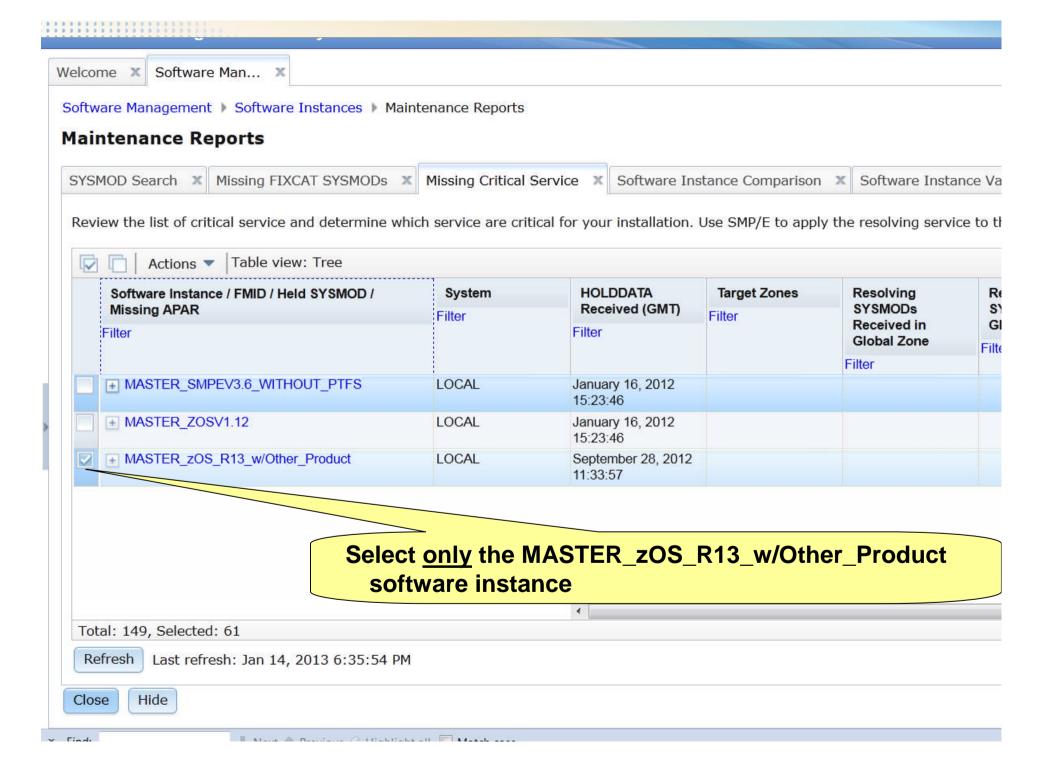


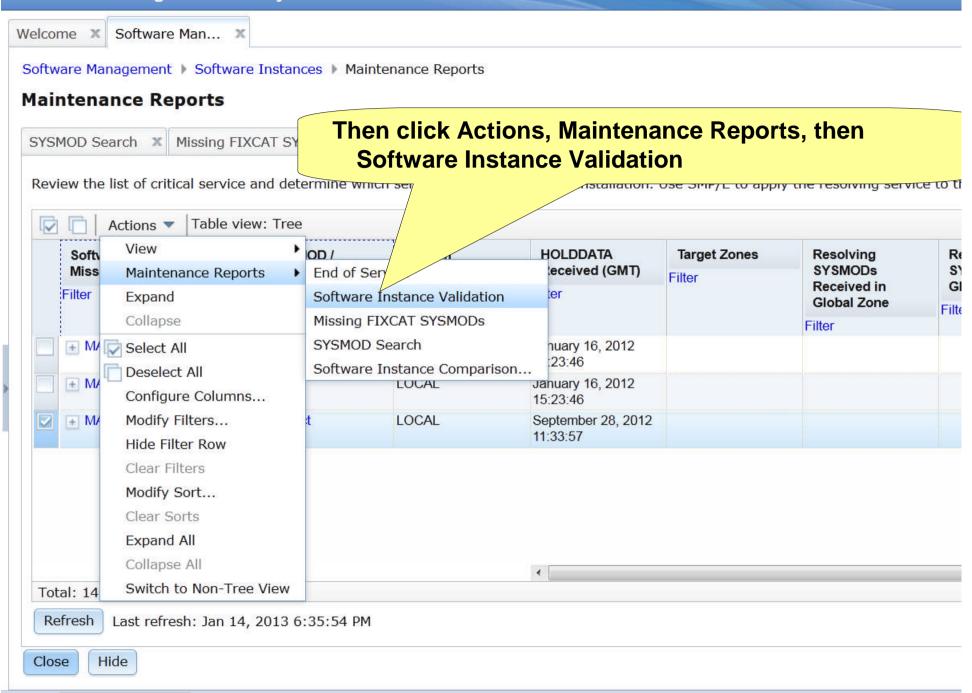
The results are displayed.



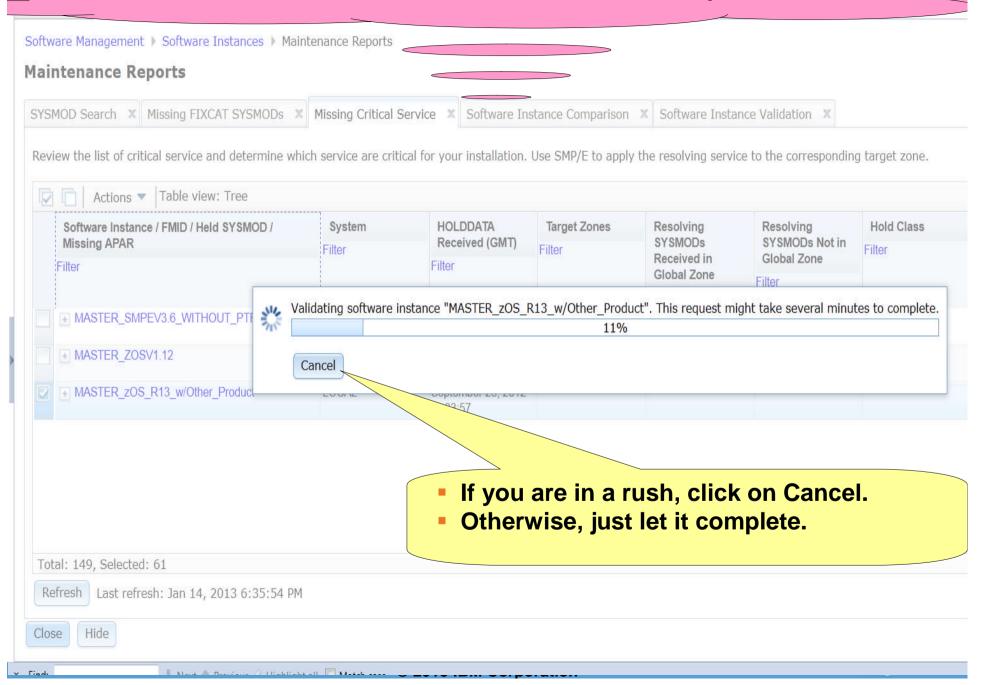
To prepare for the more complex instance validation, you will need to go back to the Missing Critical Service tab (again)



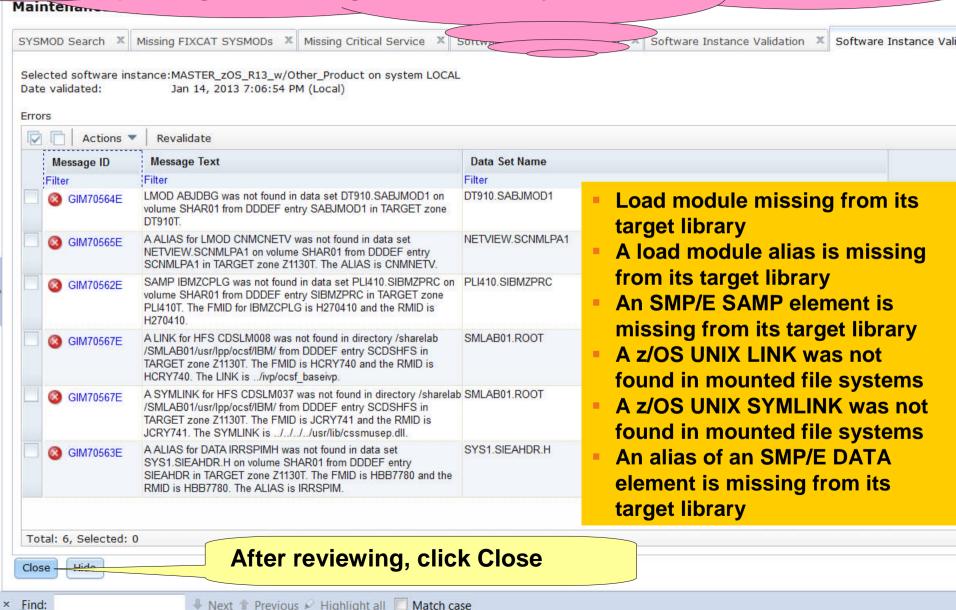




This validation will take a few minutes to complete



Note: Errors were introduced in the software instance to show errors. The kinds of validation errors that are identified include DDDEFs pointing to the wrong data sets, file systems not mounted, or ...





Step 5: Report on Products



Welcome X

Software Man...

Click on Products

Software Management

Use this task to view detaile out your software inventory, including related products, features, FMIDs, data sets, deployments, and SYSMO

Software Instances Define your software to z/OSMF; deploy software; generate reports about your software.

Products View a consolidated list of the products included in each software instance.

Deployments Deploy a software instance, and manage existing deployments.

Categories Create new categories for your software instances and deployments, and manage existing categories.

Settings Select the time zone in which to display date and time data. Indicate whether to display or suppress information message

IBM z/OS Manago

A list of installed products is displayed. It can be sorted using ANY column or filtered.

Software Management Products

Products

This table lists the products that are installed in at least one coffware instance where the product information was retrieved. To ensure that this list reflects the latest SMP/E information, use the **Retrieve Product**, **Feature**, **and FMID Information** action provided in the Software Instances view. Learn more...

Switch To:

Product	Release	Product ID	Messages	Vendor	General Availability	End of Se
Filter	Filter	Filter	Filter	Filter	Filter	Filter
System Modification Program Extended for z/OS	03.06.00	5655-G44		IBM	Sep 30, 2011	Not Ann
z/OS	01.12.00	5694-A01		IBM	Sep 24, 2010	Not Ann
Enterprise COBOL for z/OS and OS/390	03.02.00	5655-G53		IBM	Sep 27, 2002	Oct 3, 2
Debug Tool V9	09.01.00	5655-U27		IBM	Sep 26, 2008	Apr 30,
Enterprise PL/I V4	04.01.00	5655-W67		IBM	Sep 24, 2010	⚠ Apr 30,

Total: 27, Selected: 0

Refresh Last refresh: Jan 14, 2013 7:10:54 PM

Note: There is no easy way to compile a list of all installed products across your enterprise using SMP/E list commands or query functions.

For example clicking on Product will sort the table based on product name.

	based on product name.
Welcome X Software	<u>-</u>

Products

Software Management > Products

Click on Product

This table lists the products that are installed in at least the metallic product information was retrieved. To ensure that the product information action provided in a least three product information was retrieved. To ensure that the product information action provided in a least three products that are installed in at least three products information was retrieved. To ensure that the product information was retrieved. To ensure that the product information was retrieved.

Product	Release	Product ID	Messages	Vendo
Filter	Filter	Filter	Filter	Filter
System Modification Program Extended for z/OS	03.06.00	5655-G44		IBM
z/OS	01.12.00	5694-A01		IBM
Enterprise COBOL for z/OS and OS/390	03.02.00	5655-G53		IBM
Debug Tool V9	09.01.00	5655-U27		IBM
Enterprise PL/I V4	04.01.00	5655-W67		IBM

Total: 27, Selected: 0

Refresh Last refresh: Jan 14, 2013 7:10:54 PM

The table is now sorted and a triangle point up is now displayed in the Product column heading.

Software Management > Products

Products

This table lists the products that are installed in at least one software instance where the product information was retrieved. To ensure that this list reflects the latest SMP/E information, use the Retrieve Product, Feature, and FMID Information action provided in the Software Instances view, Learn more...

Click on the filter in the End of Service column

Product	▲ Release	Product ID	Messages	Vendor	General Availability	End of Service	Additional Product Information
Filter	Filter	Filter	Filter	Filter	Filter	Filter	Filter
AFP FONT COLLECTION FOR \$/390	02.01.01	5648-B33		IBM	Oct 27, 2000	Not Announced	http://www-01.ibm.com/common/ssi/cgi- bin/ssialias?infotype=dd&subtype=sm& appname=ShopzSeries&htmlfid=897/ENUS5648-B3
DITTO/ESA FOR MVS	01.03.00	5655-103		IBM	Jun 25, 1999	Mot Announced	http://www-01.ibm.com/common/ssi/cgi- bin/ssialias?infotype=dd&subtype=sm& appname=ShopzSeries&htmlfid=897/ENUS5655-10:
Debug Tool V12	12.01.00	5655-W70		IBM	May 11, 2012	Not Announced	http://www-01.ibm.com/common/ssi/cgi- bin/ssialias?infotype=dd&subtype=sm& appname=ShopzSeries&htmlfid=897/ENUS5655-Wi
Debug Tool V9	09.01.00	5655-U27		IBM	Sep 26, 2008	Apr 30, 2012	http://www-01.ibm.com/common/ssi/cgi- bin/ssialias?infotype=dd&subtype=sm& appname=ShopzSeries&htmlfid=897/ENUS5697-P1
Enterprise COBOL V4	04.02.00	5655-S71		IBM	Aug 28, 2009	Not Announced	http://www-01.ibm.com/common/ssi/cgi- bin/ssialias?infotype=dd&subtype=sm& appname=ShopzSeries&htmlfid=897/ENUS5655-S7
Enterprise COBOL for z/OS and OS/390	03.02.00	5655-G53		IBM	Sep 27, 2002	Oct 3, 2005	http://www-01.ibm.com/common/ssi/cgi- bin/ssialias?infotype=dd&subtype=sm& appname=ShopzSeries&htmlfid=897/ENUS5655-G5
Enterprise PL/I V4	04.01.00	5655-W67		IBM	Sep 24, 2010	⚠ Apr 30, 2014	http://www-01.ibm.com/common/ssi/cgi- bin/ssialias?infotype=dd&subtype=sm& appname=ShopzSeries&htmlfid=897/ENUS5655-W(
Enterprise PL/I V4	04.02.00	5655-W67		IBM	Sep 30, 2011	Not Announced	http://www-01.ibm.com/common/ssi/cgi- bin/ssialias?infotype=dd&subtype=sm& annname=Shonz Series&htmlfid=897/FNI IS5655-W/

Total: 27, Selected: 0

Refresh Last refresh: Jan 21, 2013 2:33:02 PM



IBM z/OS

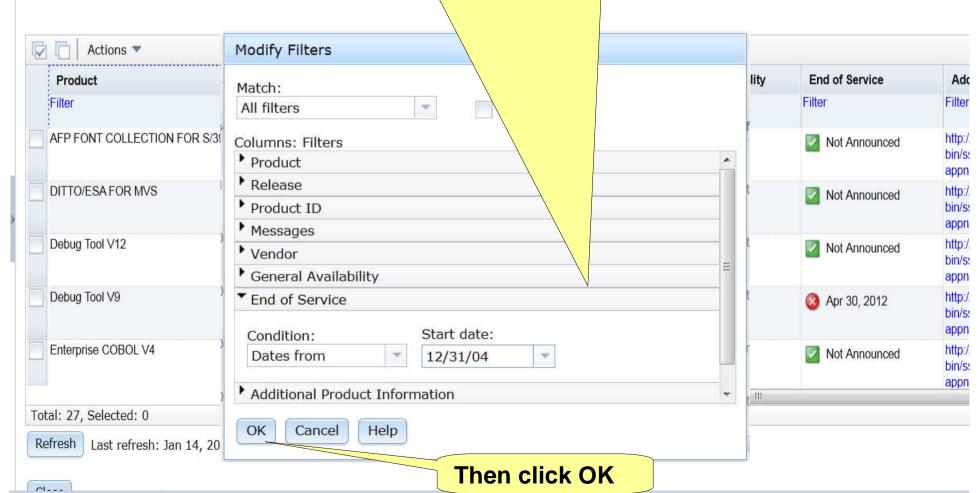
For example, you can filter the list to identify any product with an announced end of service date later than December 31, 2004.

Software managemen

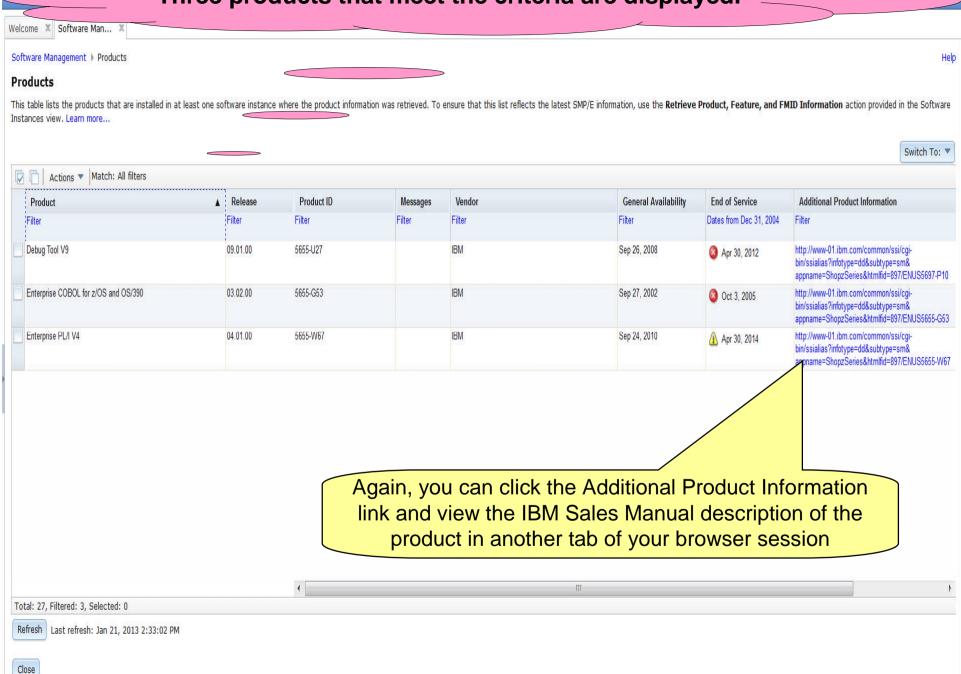
Products

This table lists the products that are provided in

- 1. Select "Dates from" for the "condition"
- 2. Enter "12/31/04" for the "Start Date"



Three products that meet the criteria are displayed.



IDI

Now you can see where these products are installed by selecting Actions, View and then Software Instances

Software Management > Products

Products

This table lists the products that are installed Feature, and FMID Informaction products

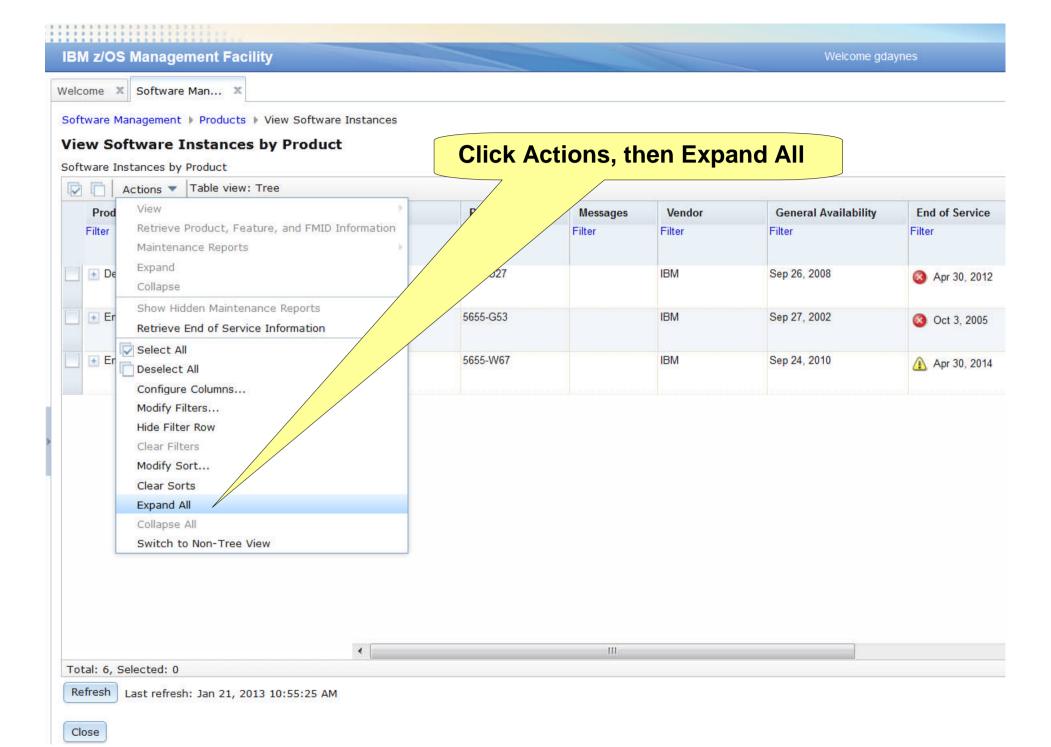
- 1. Select each of the three products
- 2. Then click on Actions, View, and then Software Instances



Total: 27, Filtered: 3, Selected: 3

Refresh Last refresh: Jan 14, 2013 7:10:54 PM

Olar-



For each product, <u>all</u> the software instances where that product is installed will be displayed.

View Software Instances by Product

☐ Actions ▼ Table view. Tree							
Product / Software Instance	Release	Product ID	Messages	Vendor	General	End of Service	Additional Product Informa
Filter	Filter	Filter	Filter	Filter	Availability	Filter	Filter
					Filter		
Enterprise COBOL for z/OS and OS/390	03.02.00	5655-G53		IBM	Sep 27, 2002	Oct 3, 2005	http://www-01.ibm.com/comn bin/ssialias?infotype=dd&subt appname=ShopzSeries&html
■ MASTER_zOS_R13_w/Other_Product							
Debug Tool V9	09.01.00	5655-U27		IBM	Sep 26, 2008	Apr 30, 2012	http://www-01.ibm.com/comn bin/ssialias?infotype=dd&subt appname=ShopzSeries&html
■ MASTER_zOS_R13_w/Other_Product							·
Enterprise PL/I V4	04.01.00	5655-W67		IBM	Sep 24, 2010	⚠ Apr 30, 2014	http://www-01.ibm.com/comn bin/ssialias?infotype=dd&subf appname=ShopzSeries&html
■ MASTER zOS R13 w/Other Product	4			You ca	an scroll	right	

Refresh

Close

Note: It is common to have the same product installed in multiple software instances. However, these products with announced end of service dates are only installed in one software instance.

You can scroll right to see who created and who last modified the software instance



......

Software Man...

IBM z/OS Management Facility

Software Managemer

Use this task to view detain your software inventory, including related products, features, FMIDs, data sets, deployments, and SYSMO

Software Instances Instanc

Products View a consolidated list of the products included in each software instance.

Deployments Deploy a software instance, and manage existing deployments.

Categories Create new categories for your software instances and deployments, and manage existing categories.

Settings Select the time zone in which to display date and time data. Indicate whether to display or suppress information message

IBM Z/OS M-

Same as existing z/OS V1.13 function

Welcome X Software Man... X

Software Management > Deployments

Deployments

To deploy a software instance, create a new deployment by selecting **New** or **Copy** from the Actions menu.

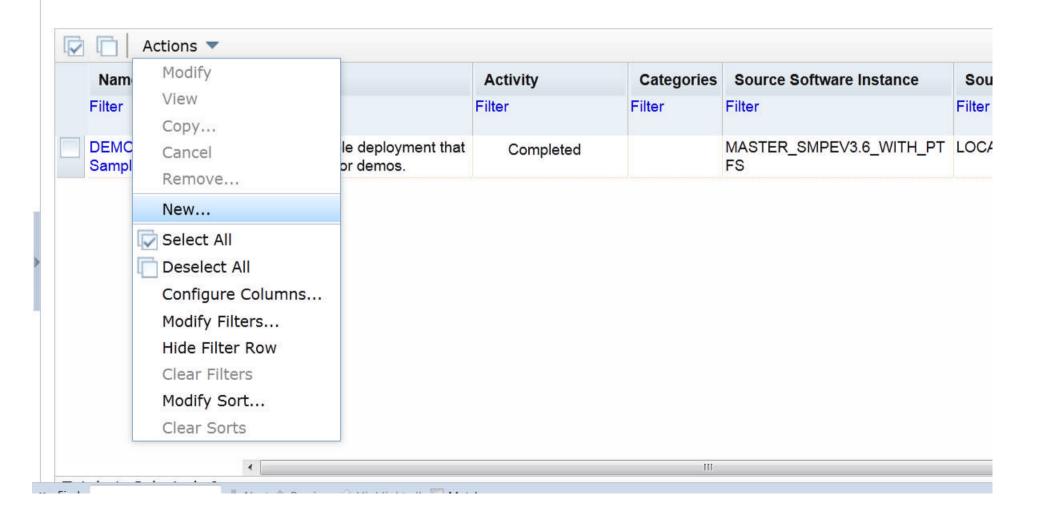
V	☐ Actions ▼					
	Name	Description	Activity	Categories	Source Software Instance	Sou
	Filter	Filter	Filter	Filter	Filter	Filter
	DEMO_Deployment_ Sample	This is a sample deployment that may be used for demos.	Completed		MASTER_SMPEV3.6_WITH_PT FS	LOCA

To deploy a software instance, create a new deployment by selecting New or Copy from the Actions menu.

Software Management Deproyments

Deployments

To deploy a software instance, create a new deployment by selecting **New** or **Copy** from the Actions menu.



The same checklist leads you through the new deployment

Welcome X Software Man... X

Software Management ▶ Deployments ▶ Deployment Checklist

Deployment Checklist

To deploy a software instance, complete the checklist.

Checklist

Progress	Step
4>	1. Specify the properties for this deployment.
	2. Select the software instance to deploy.
	3. Select the objective for this deployment.
	4. Check for missing SYSMODs. • View missing SYSMOD reports.
	5. Configure this deployment.
	 6. Define the job settings. z/OSMF creates the deployment summary and jobs. View the deployment summary. View the deployment jobs.
	7. Specify the properties for the target software instance.

Close











z/OSMF Software Management Hands-On Lab

Greg Daynes
IBM Corp.
gdaynes@us.ibm.com

Friday, February 8, 2013: 8:00 AM-9:00 AM
Union Square 23-24, Fourth Floor
Session 13070



Additional Information



- z/OS Management Facility website
 - http://ibm.com/systems/z/os/zos/zosmf/
- z/OSMF V1.13 SPE Enhancement webpage
 - http://www-03.ibm.com/systems/z/os/zos/zosmf/enhancements.html
- IBM z/OS Management Facility education modules in IBM Education Assistant
 - http://publib.boulder.ibm.com/infocenter/ieduasst/stgv1r0/index.jsp
 - Scroll down to z/OS Management Facility





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